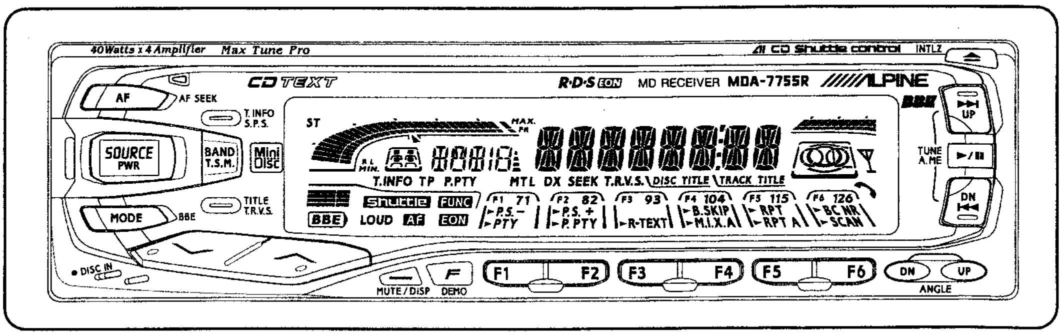
ALPINE

SERVICE MANUAL

FM/MW/LW/RDS MD Receiver

CD Shuttle Controller

- The model described in this manual is developed from Model TDA-7572R.
  For information that is not mentioned in this service manual, refer to the Service Manual·TDA-7572R/TDA-7570R (Part No. 68E30104S01). 465
  Caution: The part marked with ⚠ is generating a high voltage, so care will be necessary when working.


40Watts x 4 Amplifier
Max Tune Pro
CD Shuttle control
INTLZ
CD TEXT
R·D·S EON
MD RECEIVER MDA-7755R
ALPINE
BBE
AF
AF SEEK
T.INFO
S.P.S.
SOURCE
PWR
BAND
T.S.M.
Mini Disc
TITLE
T.R.V.S.
MODE
BBE
ST
MAX.
T.INFO TP P.PTY
MTL DX SEEK T.R.V.S. DISC TITLE TRACK TITLE
Shuttle
FUNC
BBE
LOUD
AF
EON
F1 71
P.S.−
PTY
F2 82
P.S.+
P.PTY
F3 93
R-TEXT
F4 104
B.SKIP
M.I.X.A
F5 115
RPT
RPT A
F6 126
BC NR
SCAN
UP
TUNE
A.ME
►/II
DN
DISC IN
MUTE/DISP
DEMO
F
F1
F2
F3
F4
F5
F6
DN
UP
ANGLE

MDA-7755R

Contents

Packing Assembly Parts List (Only Difference) 2
Specifications (Only Difference) 3
Extension Cable 3
MD Mechanism Adjustment Procedures .... 4 to 6
Block Diagram 7
Parts Layout on P.W. Boards and Wiring Diagram (1/4) 9, 10
Parts Layout on P.W. Boards and Wiring Diagram (2/4) 11, 12
Parts Layout on P.W. Boards and Wiring Diagram (3/4) 13, 14
Parts Layout on P.W. Boards and Wiring Diagram (4/4) 15, 16
Schematic Diagram (1/7) .... 17 to 19
Schematic Diagram (2/7) .... 20 to 22
Schematic Diagram (3/7) .... 23 to 25
Schematic Diagram (4/7) .... 26 to 28
Schematic Diagram (5/7) .... 29 to 31
Schematic Diagram (6/7) .... 32 to 34
Schematic Diagram (7/7) .... 35 to 37
Description of IC Terminal (Only Difference) .... 38 to 40
Electrical Parts List .... 41 to 51
Exploded View (Cabinet) 53, 54
Cabinet Assembly Parts List 55
Disassembly Instructions 56
Semi-Conductor Lead Identifications (Only Difference) 57, 58
Exploded View (MD Deck Mechanism) (DY31A020) 59, 60
MD Deck Mechanism Assembly Parts List 61

Packing Method View
Adjustment Procedures (FM/AM SECTION)
Adjustment Locations (FM/AM SECTION)
Tuner Schematic Diagram

Refer to the Service Manual • TDA-7572R (Part No. 68E30104S01).

Packing Assembly Parts List (Only Difference)

NOTE : For the parts not mentioned, refer to the Service Manual for TDA-7572R (Part No. 68E30104S01).

Model	TDA-7572R		MDA-7755R	
Symbol No.	Part No.	Description	Part No.	Description
107-1	68P21523Y46	Owner's Manual	68P21523Y27	Owner's Manual
107-2	68P21523Y47	Owner's Manual (I/G/S)	68P21523Y28	Owner's Manual (I/G/S)

Specifications (Only Difference)

NOTE : Refer to the Service Manual・TDA-7572R (Part No. 68E30104S01) for description not mentioned in this manual.

<MD SECTION>

System	Optical (Mini Disc System)
Channel Balance (1kHz)	0±3dB
Distortion (1kHz)	0.1%
Frequency Response (Ref. 1kHz)	20Hz : 0±3dB
	100Hz : 0±2dB
	10kHz : 0±2dB
	20kHz : 0±4dB
S/N Ratio	70dB
Separation (1kHz)	55dB
De-Emphasis (Ref. 1kHz)	5kHz : -4.53±2dB
	16kHz : -9.04±2dB

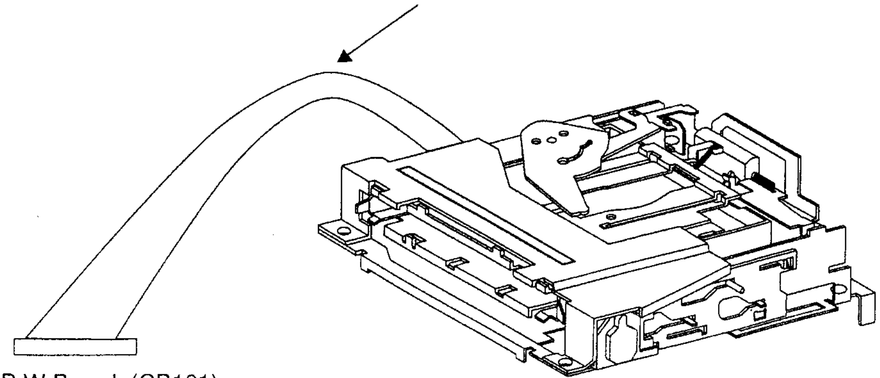
<Mini DISC>

Track Pitch	1.6μm
Sampling Frequency	44.1kHz
Linear Speed	1.2~1.4m/sec.
Dimension	Diameter : 64±0.2mm
	(MO) 64.8±0.2mm
	Thickness : 1.2+0.15, -0.1mm (Pre Mastered Disc)
	1.2+0.15, -0.1mm (Recordable Disc)

NOTE : Due to Continuing product improvement, specifications and designs are subject to change without notice.

Extension Cable

- When repairing or measuring the voltage of this unit, connect with the Extension Cable as shown in below.



Extension Cable (22P)
(01E29154S01)

To Main P.W.Board (CB101)

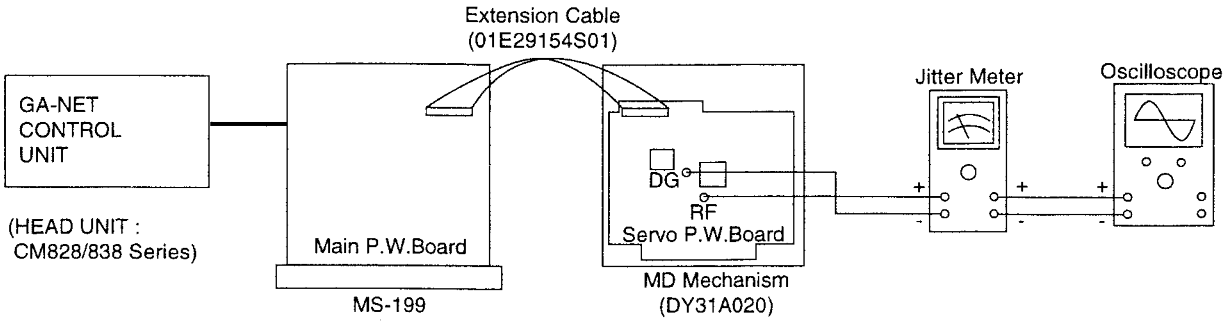
MD Deck Mechanism

MD Mechanism Adjustment Procedures

- **Always perform the adjustments when parts (Pick-up, P.W.Board, etc.) of MD Mechanism (DY31A020) are replaced.**

NOTE: Remove the MD Mechanism (DY31A020) from MDA-7755R and connect the mechanism to the GA-NET system. Adjust the MD Mechanism and memorizes the data to the MD microcomputer. (Disconnect the MD Mechanism used in the GA-NET system and connect the mechanism to MDA-7755R.)

1. Connection method

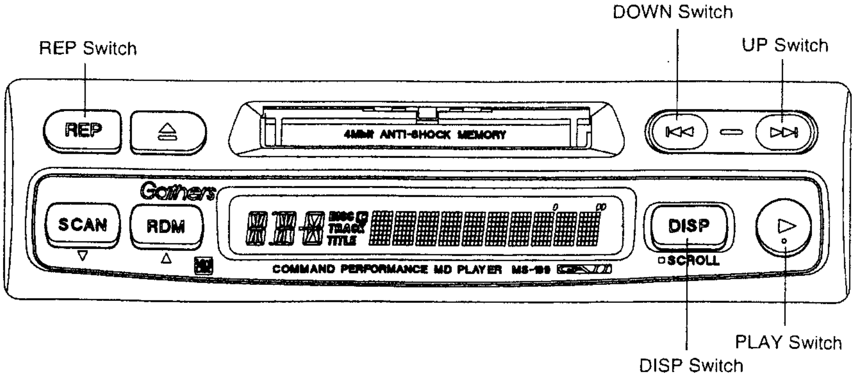

Extension Cable
(01E29154S01)
GA-NET
CONTROL
UNIT
(HEAD UNIT :
CM828/838 Series)
Main P.W.Board
MS-199
DG
RF
Servo P.W.Board
MD Mechanism
(DY31A020)
Jitter Meter
Oscilloscope
+
-
+
-
+
-

NOTE: For details of the adjustment points (RF, DG), refer to "Parts Layout on P.W.Boards and Wiring Diagram (4/4)".

2. Setting positions of switches, etc.
   - GA-NET CONTROL UNIT : POWER OFF

3. Test MD used
   - TEAC: MMD-212

4. Positions of switches used in the adjustment


DOWN Switch
REP Switch
UP Switch
REP
4MB ANTI-SHOCK MEMORY
SCAN
RDM
DISP
SCROLL
COMMAND PERFORMANCE MD PLAYER MS-199
PLAY Switch
DISP Switch

NOTE: Perform the adjustments with switches on MS-199 side.

5. Adjustment method

- Perform the preliminary automatic adjustment, ATT automatic adjustment, and F-BAL adjustment in the order shown below.

-1. Test mode start method

	Procedure, method	Contents displayed (MS-199)
①	Under condition with steps 1, 2 completed, press both of DISP and REP at the same time for more than 2 seconds.	No display → Ver. Display → PW OFF
②	Press REP .	TEST
③	Insert Test MD.	TEST

-2. Preliminary automatic adjustments

	Procedure, method	Contents displayed (MS-199)
①	Press UP with test MD inserted.	TEST → AUTO 1
②	Press PLAY .	AT1 00 ~ AT1 19 NOTE: 00~19 stand for adjustment numbers. For the contents refer to below.
③	Preliminary auto adjustment completed normally.	ADJ. OK
	Preliminary auto adjustment completed abnormally.	ADJ. NG (Refer to AT1XX before displaying "ADJ NG". Perform recheck and the adjustments.)

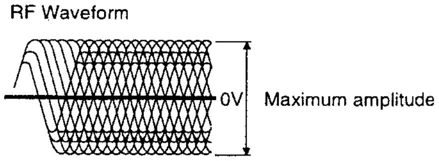
00 : Motion to inside most peripheral
02 : ABEF offset temporary measurement
04 : RF side focus gain coarse adjustment
05 : Focus ATT temporary setting
06 : RF side pit section tracking gain adjustment
07 : COUT level setting for pit section adjustment
08 : Motion to outside peripheral
09 : RF side group section tracking gain adjustment
10 : COUT level setting for group section adjustment
11 : RF side TCRS gain adjustment
12 : Tracking ATT initial setting
13 : RF side focus gain fine adjustment
14 : Focus ATT initials setting
15 : S gain "High" ABEF offset measurement
16 : TCRS offset setting
17 : S gain "Low" ABEF offset measurement
19 : E^{2}P-ROM write process

-3. ATT automatic adjustment

	Procedure, method	Contents displayed (MS-199)
①	Press PLAY under condition of preliminary automatic adjustment completed.	ADJ. OK → AT2 00 ~ AT2 09 NOTE: 00~09 stand for adjustment number. For the contents, refer to next page.
②	ATT automatic adjustment completed normally.	ADJ. OK
	ATT automatic adjustment completed abnormally.	ADJ. NG (Refer to AT2XX before displaying "ADJ NG". Perform recheck and the adjustment.)

00 : Motion to inside most peripheral
03 : Pit section tracking ATT setting
04 : Pit section focus ATT setting
06 : Motion to outside [low reflection only]
07 : TCRS ATT setting [low reflection only]
08 : Group section tracking ATT setting [low reflection only]
09 : Group section focus ATT setting [low reflection only]

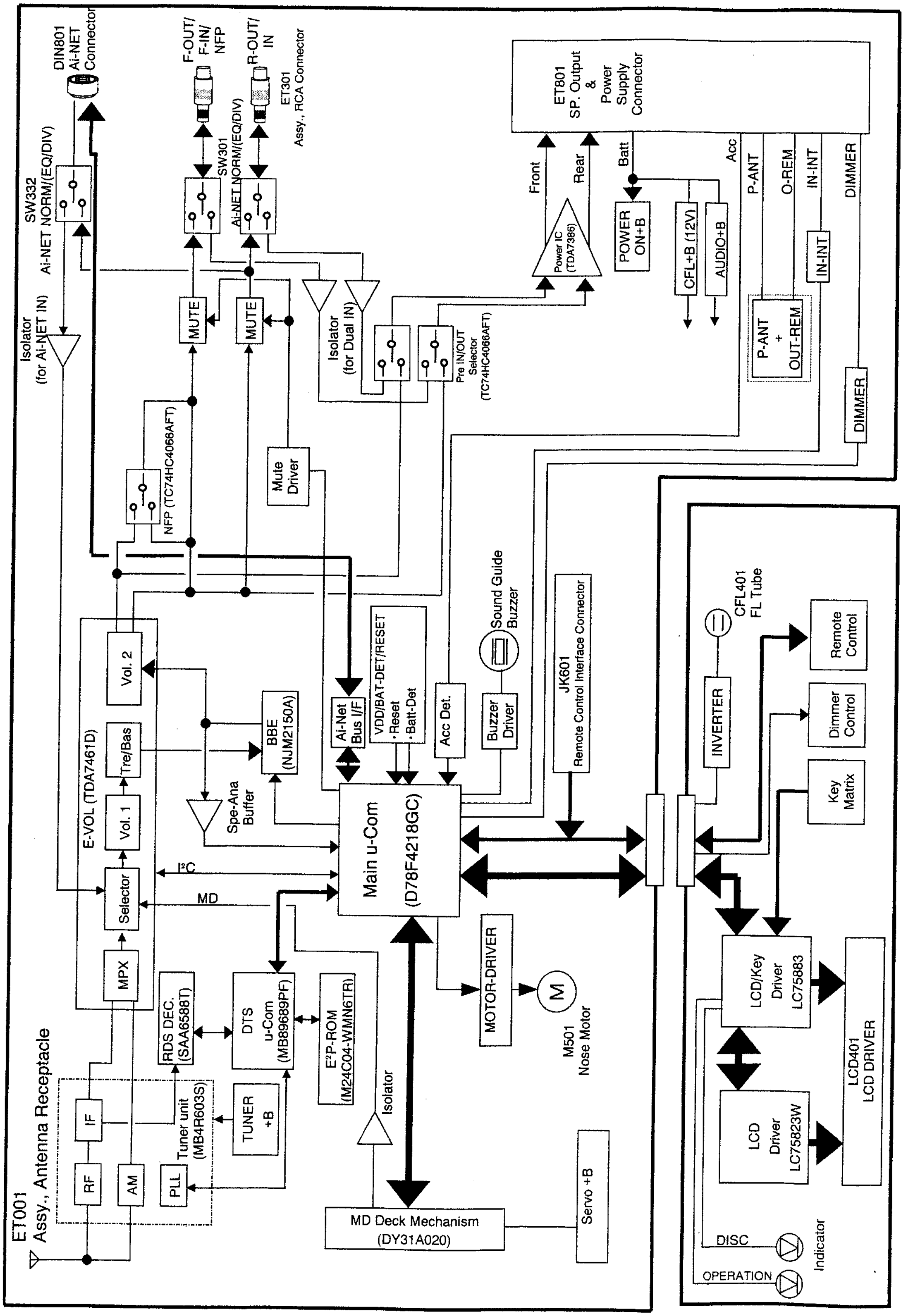
-4. F-BAL adjustment

	Procedure, method	Contents displayed (MS-199)
①	Press UP under condition of ATT automatic adjustment completion. (At that time, address display "APXXXXXX" is displayed continuously.)	ADJ. OK → F-BAL SEL → "APXXXXXX" (displayed continuously)
②	Perform fine adjustment by pressing UP and DOWN so that Jitter meter shows minimum and amplitude of RF waveform on the scope shows maximum. 	STEP Display : ex "0", "-2" etc. UP : Max. +14 (7Steps) DOWN : Max. -16 (8Steps)
③	After completion of the adjustment, write the data on E^2P-ROM by pressing PLAY while STEP is being displayed. (After writing the data, "APXXXXXX" is displayed.)	STEP Display : ex "-2" → Writing → "APXXXXXX"

-5. Preliminary automatic adjustment (perform again)

	Procedure, method	Contents displayed (MS-199)
①	Press REP under condition of F-BAL adjustment completed.	"APXXXXXX" → PW OFF
②	Press REP under condition of PW OFF displayed.	PW OFF → TEST
③	Press UP .	TEST → AUTO1
④	Press PLAY .	AUTO1 → AT1 00~AT1 19
⑤	Preliminary automatic adjustment completion.	ADJ. OK
⑥	Press REP.	ADJ. OK → PW OFF
⑦	Eject test MD by pressing ⏏ .	

Block Diagram

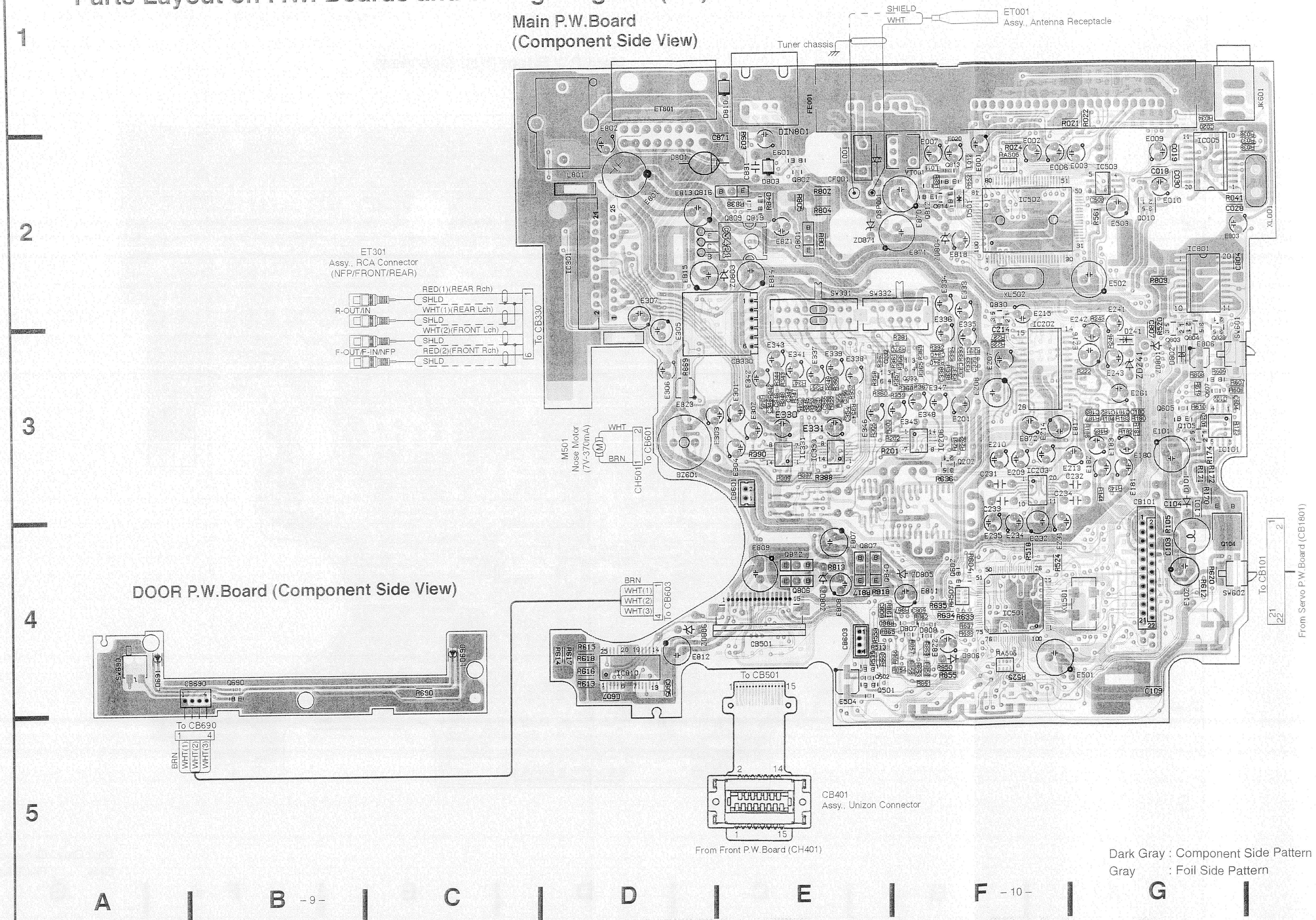

DIN801
Ai-NET
Connector
F-OUT/
F-IN/
NFP
R-OUT/
IN
ET301
Assy., RCA Connector
SW332
Ai-NET NORM/(EQ/DIV)
SW301
Ai-NET NORM/(EQ/DIV)
Isolator
(for Ai-NET IN)
MUTE
MUTE
Isolator
(for Dual IN)
Pre IN/OUT
Selector
(TC74HC4066AFT)
ET801
SP. Output
&
Power
Supply
Connector
Front
Rear
Batt
Acc
P-ANT
O-REM
IN-INT
DIMMER
Power IC
(TDA7386)
POWER
ON+B
CFL+B (12V)
AUDIO+B
IN-INT
P-ANT
+
OUT-REM
DIMMER
NFP (TC74HC4066AFT)
Mute
Driver
E-VOL (TDA7461D)
Vol. 2
Tre/Bas
Vol. 1
Selector
MPX
BBE
(NJM2150A)
Spe-Ana
Buffer
I²C
MD
Ai-Net
Bus I/F
VDD/BAT-DET/RESET
• Reset
• Batt-Det
Acc Det.
Sound Guide
Buzzer
Buzzer
Driver
JK601
Remote Control Interface Connector
Main u-Com
(D78F4218GC)
MOTOR-DRIVER
M
M501
Nose Motor
RDS DEC.
(SAA6588T)
DTS
u-Com
(MB89689PF)
E²P-ROM
(M24C04-WMN6TR)
TUNER
+B
Isolator
MD Deck Mechanism
(DY31A020)
Servo +B
ET001
Assy., Antenna Receptacle
IF
RF
AM
PLL
Tuner unit
(MB4R603S)
CFL401
FL Tube
INVERTER
Remote
Control
Dimmer
Control
Key
Matrix
LCD/Key
Driver
LC75883
LCD
Driver
LC75823W
LCD401
LCD DRIVER
DISC
OPERATION
Indicator

MEMO

Parts Layout on P.W. Boards and Wiring Diagram (1/4)

Main P.W.Board
(Component Side View)

DOOR P.W.Board (Component Side View)


1
2
3
4
5
A
B
C
D
E
F
G
SHIELD
WHT
ET001
Assy., Antenna Receptacle
Tuner chassis
ET301
Assy., RCA Connector
(NFP/FRONT/REAR)
R-OUT/IN
F-OUT/F-IN/NFP
RED(1)(REAR Rch)
SHLD
WHT(1)(REAR Lch)
SHLD
WHT(2)(FRONT Lch)
SHLD
RED(2)(FRONT Rch)
SHLD
To CB330
M501
Nose Motor
(7V-370mA)
WHT
BRN
To CB601
CH501
BRN
WHT(1)
WHT(2)
WHT(3)
To CB603
To CB690
BRN
WHT(1)
WHT(2)
WHT(3)
To CB501
CB401
Assy., Unizon Connector
From Front P.W.Board (CH401)
To CB101
From Servo P.W.Board (CB1801)
ET801
DIN801
L801
E802
E801
IC301
CB330
SW331
SW332
IC502
IC202
IC501
IC801
IC005
IC503
IC101
IC810
XL502
XL501
XL001
JK601
CB101
CB501
CB603
CB601
CB690
SW602
SW690
D690
Q690
R690
SW601
BZ601
FE001

Dark Gray : Component Side Pattern
Gray : Foil Side Pattern

Parts Layout on P.W. Boards and Wiring Diagram (2/4)

1

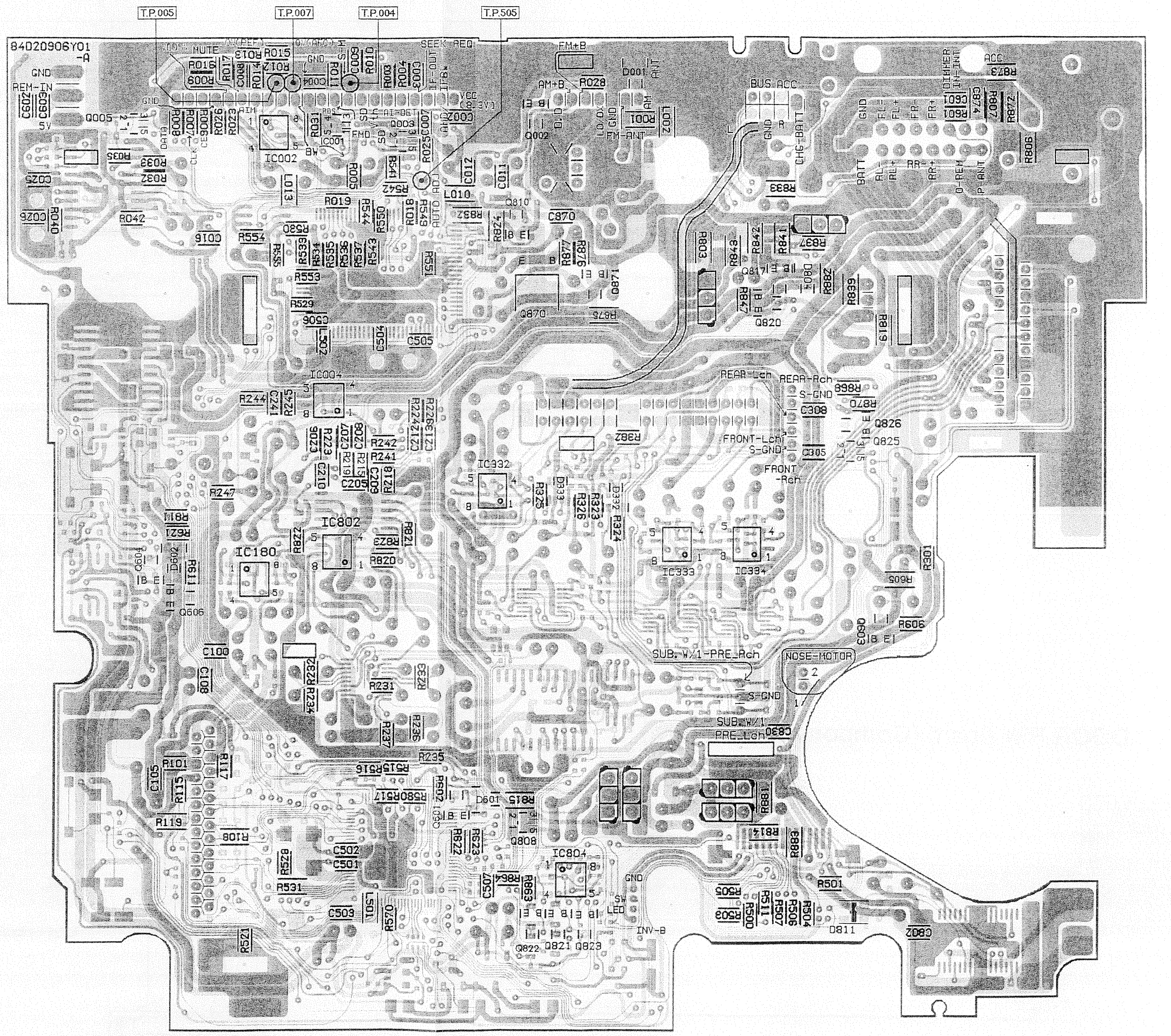
2

3

4

5

Main P.W.Board (Foil Side View)


T.P.005
T.P.007
T.P.004
T.P.505
84D20906Y01
-A
GND
REM-IN
MUTE
SEEK
REQ
FM+B
AM+B
BUS ACC
ACC
DIMMER
IC002
IC004
IC180
IC802
IC332
IC333
IC334
IC804
REAR-Lch
REAR-Rch
S-GND
FRONT-Lch
S-GND
FRONT -Rch
SUB. W/1-PRE-Rch
NOSE-MOTOR
S-GND
SUB. W/1 PRE-Lch
INV-B
LED
Q005
Q002
Q808
Q810
Q817
Q820
Q825
Q826
Q870
Q871
Q606
Q603
Q821
Q822
Q823
Q811
C100
C105
C305
C308
C501
C502
C503
C505
C870
L010
L013
L501
R101
R115
R119
R231
R235
R531
R553
R554
R606

Dark Gray : Component Side Pattern
Gray : Foil Side Pattern

A | B | C | D | E | F | G

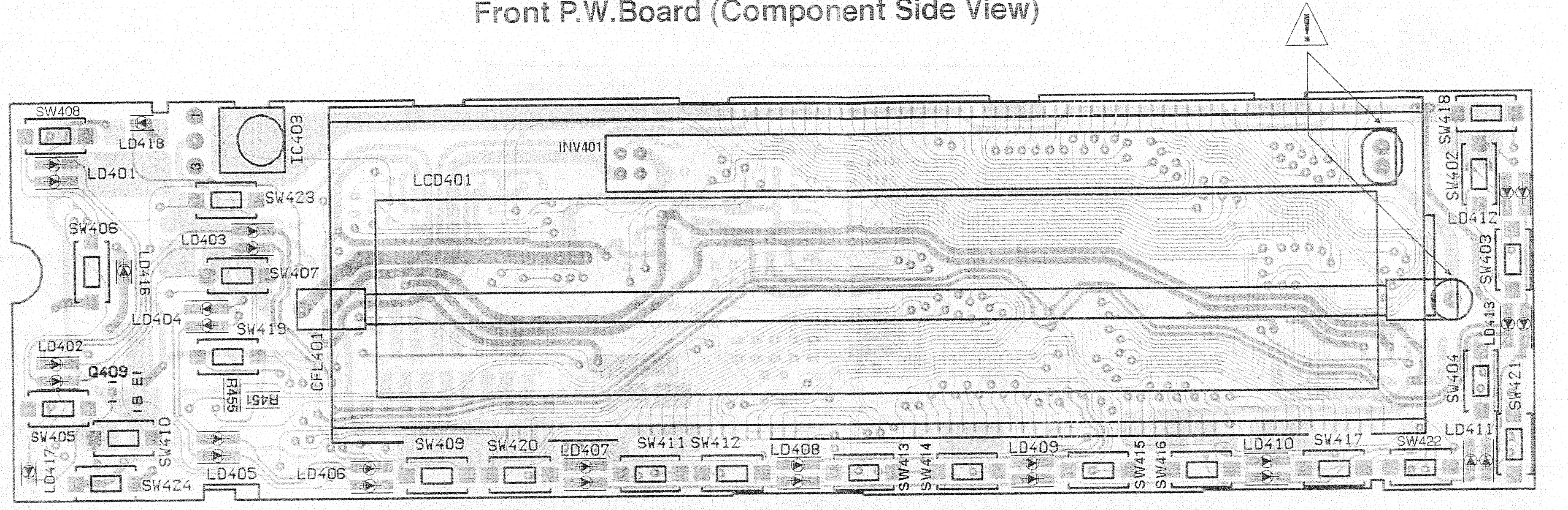
Parts Layout on P.W. Boards and Wiring Diagram (3/4)

Caution : The part marked with ⚠ is generating a high voltage,
so care will be necessary when working.

1

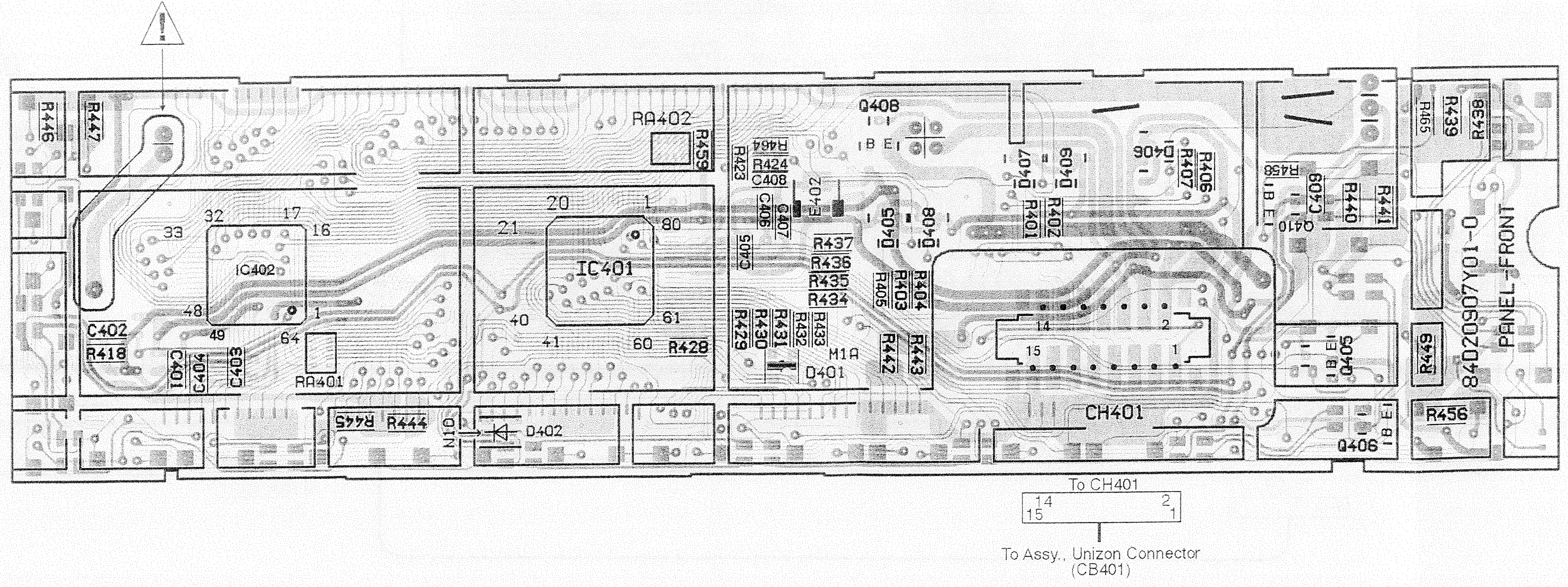
2

Front P.W.Board (Component Side View)


SW408
LD418
LD401
IC403
INV401
LCD401
SW418
SW402
SW423
SW406
LD403
LD416
SW407
LD412
SW403
LD404
SW419
LD413
LD402
Q409
B E
R455
R451
CFL401
SW404
SW421
LD411
SW405
SW410
LD417
SW424
LD405
LD406
SW409
SW420
LD407
SW411
SW412
LD408
SW413
SW414
LD409
SW415
SW416
LD410
SW417
SW422

3

Front P.W.Board (Foil Side View)


R446
R447
RA402
R459
Q408
B E
R464
R423
R424
C408
C406
C407
D402
D407
Q409
D406
R407
R406
R465
R439
R438
R458
C409
Q410
R440
R441
B E
33
32
17
16
IC402
20
1
21
80
IC401
C405
R437
R436
R435
R434
R405
R403
R404
D405
D408
R401
R402
48
49
64
1
40
41
61
60
R428
R429
R430
R431
R432
R433
M1A
D401
R442
R443
14
2
15
1
Q405
B E
R449
84D20907Y01-0
PANEL-FRONT
C402
R418
C401
C404
C403
RA401
R445
R444
M101
D402
CH401
R456
Q406
B E
To CH401
14
15
2
1
To Assy., Unizon Connector
(CB401)

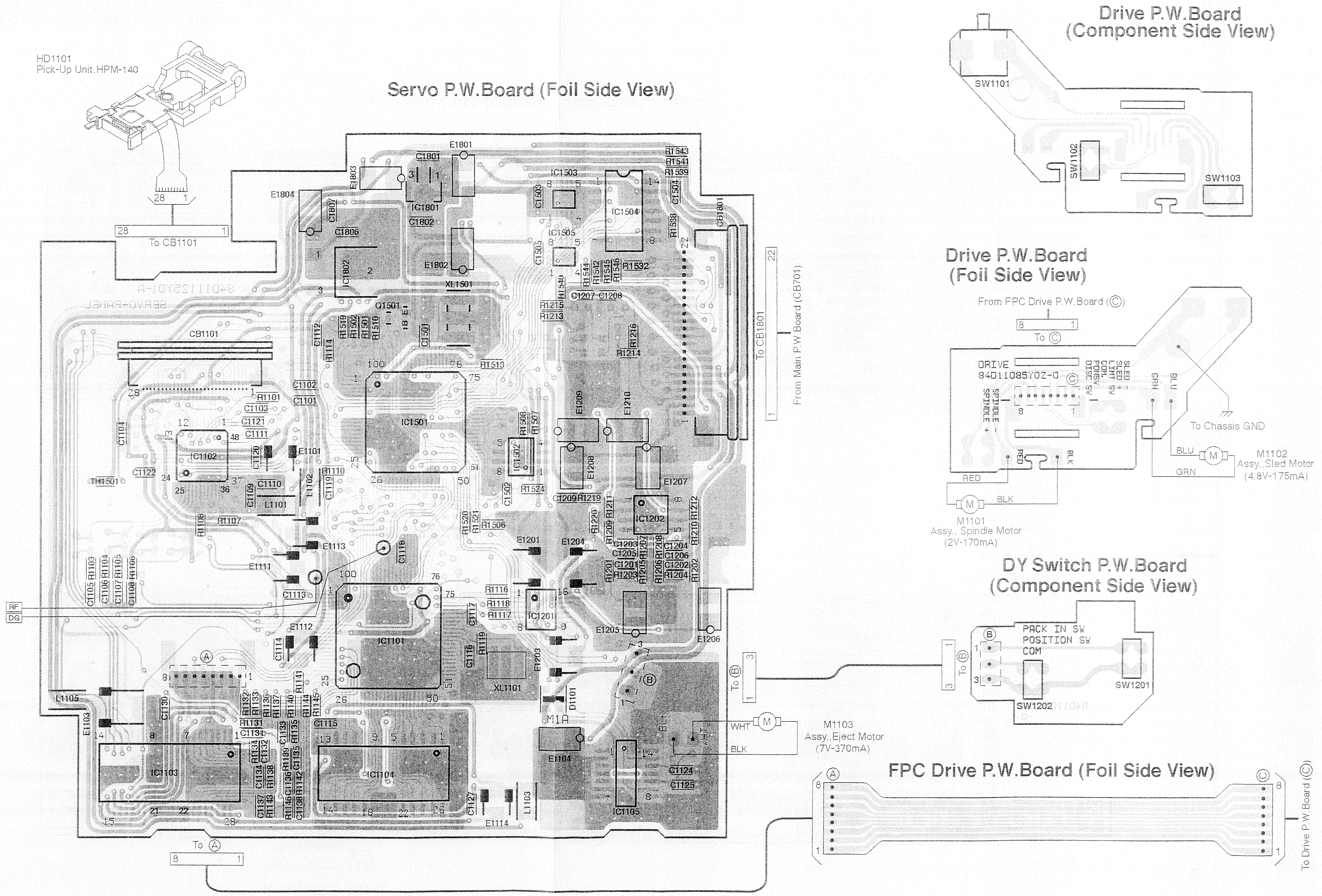
4

5

Dark Gray : Component Side Pattern
Gray : Foil Side Pattern

A | B | C | D | E | F | G

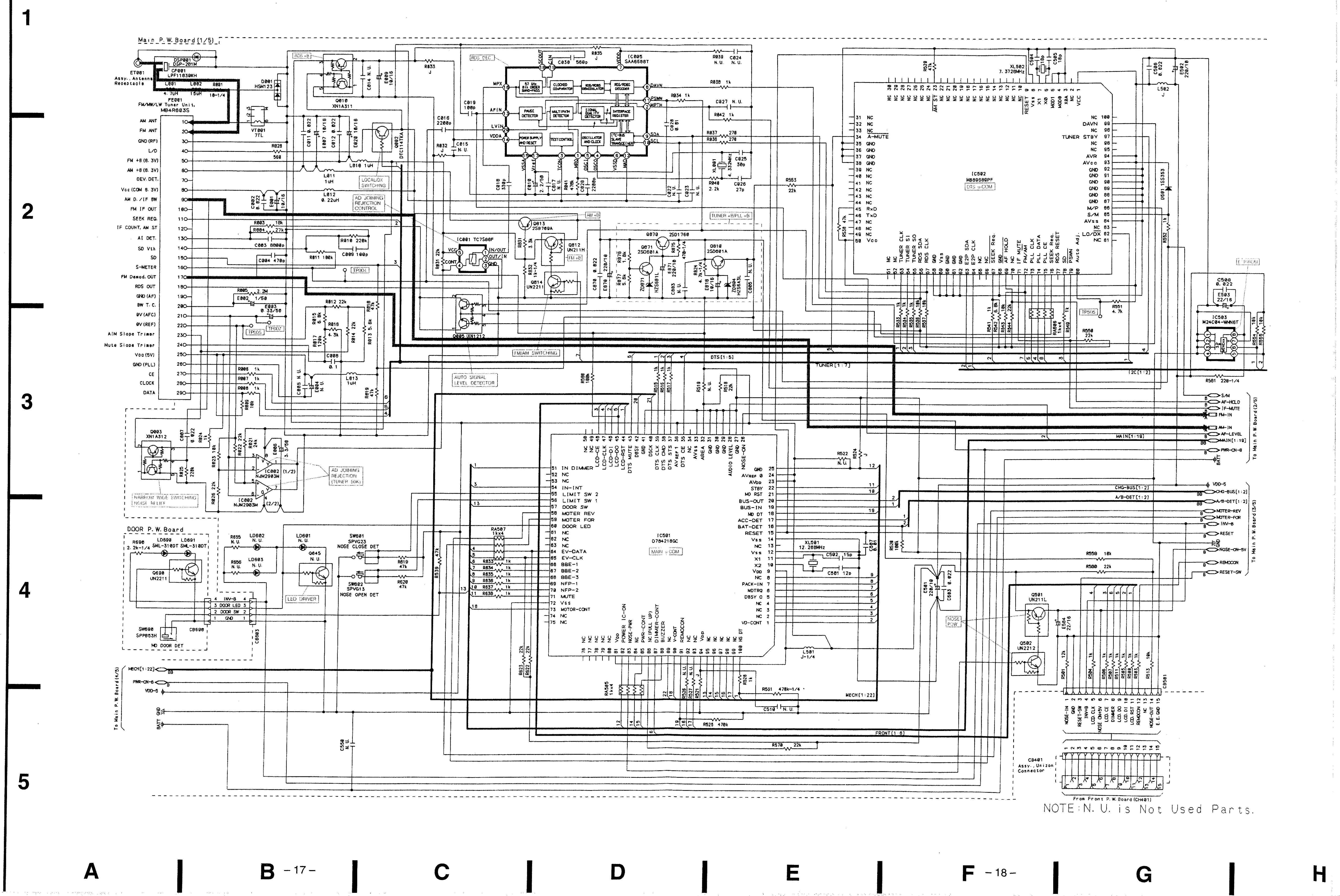
Parts Layout on P.W. Boards and Wiring Diagram (4/4)


1
2
3
4
5
HD1101
Pick-Up Unit,HPM-140
28 1
To CB1101
Servo P.W.Board (Foil Side View)
E1801
C1801
E1803
E1804
IC1801
C1802
C1807
C1806
IC1802
E1802
XL1501
IC1503
IC1505
IC1504
C1503
C1505
C1504
R1543
R1541
R1539
R1538
CB1801
R1540
R1542
R1544
R1545
R1546
R1532
C1207
C1208
R1215
R1213
Q1501
R1519
R1502
R1501
R1510
C1501
C1112
R1114
CB1101
R1216
R1214
R1513
IC1501
C1102
C1101
R1101
C1103
C1121
C1111
C1104
IC1102
E1101
C1120
C1122
TH1501
C1110
C1109
L1101
L1102
R1110
C1119
R1108
R1107
R1508
R1507
IC1502
C1502
R1524
E1209
E1210
E1208
E1207
C1209
R1219
R1211
R1212
IC1202
R1220
R1209
R1207
R1208
R1210
C1203
C1205
C1201
R1203
R1201
R1205
R1206
C1204
C1206
C1202
R1204
R1202
R1520
R1521
R1506
E1201
E1204
E1113
E1111
C1118
C1113
R1103
R1104
R1105
R1106
C1105
C1106
C1107
C1108
RF
DG
R1116
R1118
R1117
C1117
IC1201
IC1101
E1112
E1205
E1206
C1114
C1116
R1119
XL1101
E1203
D1101
Ⓐ
Ⓑ
L1105
E1103
C1130
R1132
R1133
R1136
R1137
R1140
R1141
R1144
R1145
R1131
C1131
C1115
R1134
C1132
R1139
C1133
R1189
C1135
R1135
R1143
C1134
C1136
C1137
R1138
R1142
R1146
C1138
IC1103
IC1104
M1A
E1104
IC1105
C1124
C1125
C1127
L1103
E1114
To Ⓐ
8 1
22
1
To CB1801
From Main P.W Board (CB701)
To Ⓑ
3
WHT
BLK
M1103
Assy.,Eject Motor
(7V-370mA)
Drive P.W.Board
(Component Side View)
SW1101
SW1102
SW1103
Drive P.W.Board
(Foil Side View)
From FPC Drive P.W.Board (Ⓒ)
8 1
To Ⓒ
DRIVE
84D11085Y02-0
Ⓒ
SLED +
SLED -
LIMIT SW
DOWN
FORSW
DISC SW
SPINDLE -
SPINDLE +
GRN
BLU
RED
BLK
To Chassis GND
M1102
Assy.,Sled Motor
(4.8V-175mA)
M1101
Assy., Spindle Motor
(2V-170mA)
DY Switch P.W.Board
(Component Side View)
Ⓑ
PACK IN SW
POSITION SW
COM
SW1201
SW1202
To Ⓑ
FPC Drive P.W.Board (Foil Side View)
Ⓐ
Ⓒ
8
1
To Drive P.W Board (Ⓒ)

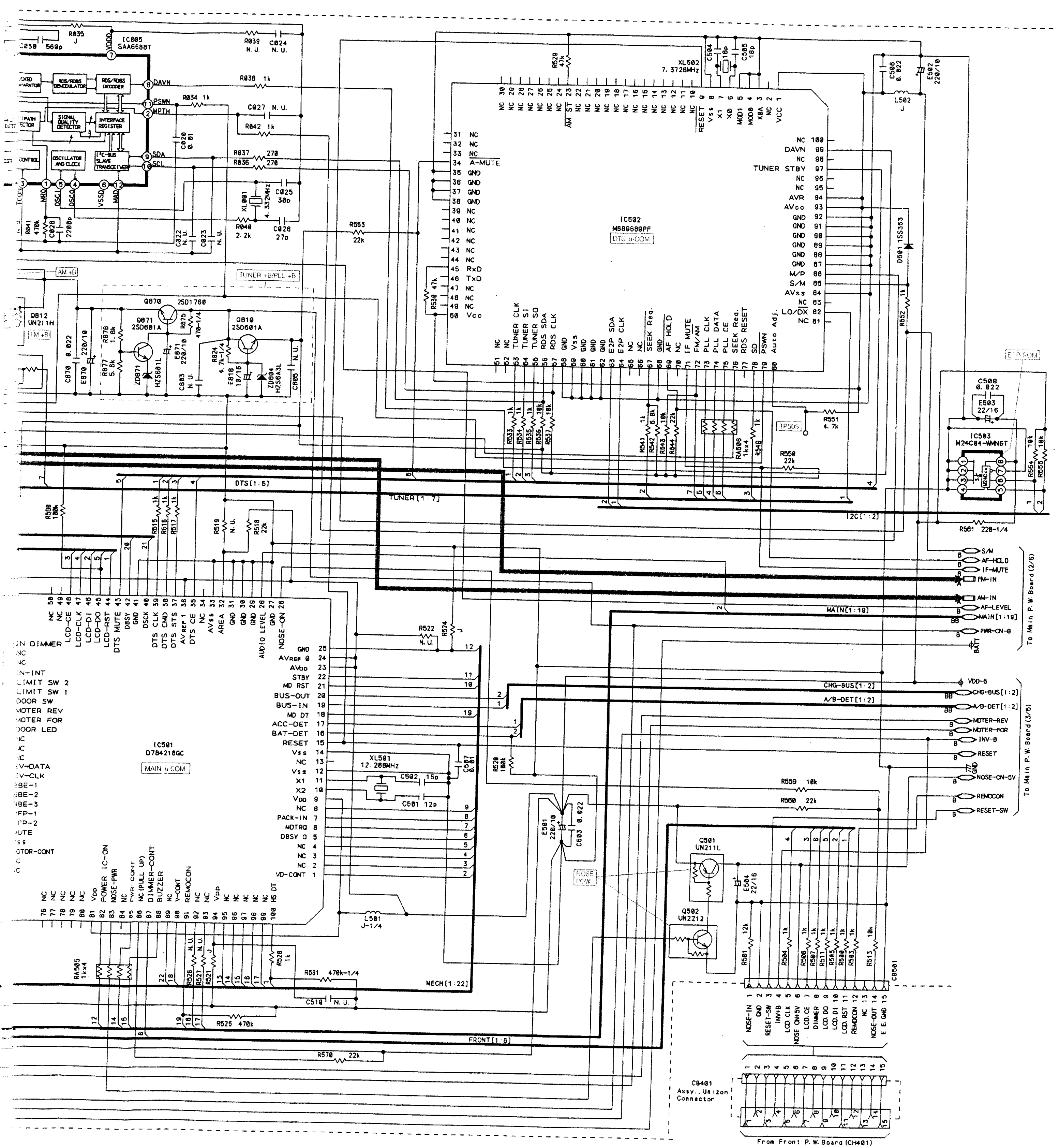
Dark Gray : Component Side Pattern
Gray : Foil Side Pattern

A | B | C | D | E | F | G

Schematic Diagram (1/7)


1
2
3
4
5
A
B
C
D
E
F
G
H
Main P.W. Board (1/5)
ET001 Assy., Antenna Receptacle
DSP001 DSP-201M
CF001 LPF11830KH
FE001 FM/MW/LW Tuner Unit, MB4R603S
AM ANT
FM ANT
GND (RF)
L/D
FM +B (8.3V)
AM +B (8.3V)
DEV. DET.
Vcc (COM 8.3V)
AM D./IF BW
FM IF OUT
SEEK REQ.
IF COUNT, AM ST
AI DET.
SD Vth
SD
S-METER
FM Demod. OUT
RDS OUT
GND (AF)
BW T.C.
0V (AFC)
0V (REF)
AIM Slope Trimer
Mute Slope Trimer
Vdd (5V)
GND (PLL)
CE
CLOCK
DATA
Q001 XN1A311
Q002 DTC114YKA
LOCAL/DX SWITCHING
AD JOINING REJECTION CONTROL
IC001 TC7S66F
Q005 XN1212
AUTO SIGNAL LEVEL DETECTOR
FM/AM SWITCHING
IC005 SAA6588T
RDS DEC.
Q013 2SB709A
Q012 UN2111
Q014 UN2211
Q070 2SD1760
Q071 2SD601A
Q010 2SD601A
TUNER +B/PLL +B
AM +B
FM +B
Q003 XN1A312
NARROW WIDE SWITCHING NOISE FILTER
IC002 NJM2903M (1/2)
IC002 NJM2903M (2/2)
AD JOINING REJECTION (TUNER 50k)
DOOR P.W. Board
Q690 UN2211
SW690 SPPB53H MD DOOR DET
SW601 SPVG23 NOSE CLOSE DET
SW602 SPVG13 NOSE OPEN DET
Q645
LED DRIVER
IC501 D784218GC MAIN μ-COM
XL501 12.288MHz
IC502 MB89580PF DTS μ-COM
XL502 7.3728MHz
IC503 M24C04-WMN6T
E²PROM
Q501 UN2111
Q502 UN2212
NOSE POW
DTS [1:5]
TUNER [1:7]
I2C [1:2]
MAIN [1:19]
MECH [1:22]
FRONT [1:8]
CHG-BUS [1:2]
A/B-DET [1:2]
To Main P.W. Board (2/5)
To Main P.W. Board (3/5)
To Main P.W. Board (4/5)
CB401 Assy., Unizon Connector
From Front P.W. Board (CN401)

NOTE: N. U. is Not Used Parts.


IC005 SAA6588T
IC502 MB89580PF
IC501 D784218GC
IC503 M24C04-WMN6T
XL502 7.3728MHz
XL501 12.288MHz
XL001 4.332MHz
Q501 UN2211L
Q502 UN2212
Q870 2SD1760
Q871 2SB601A
Q810 2SD601A
Q812 UN211H
TUNER [1:7]
DTS [1:5]
I2C [1:2]
MAIN [1:19]
MECH [1:22]
FRONT [1:8]
CHG-BUS [1:2]
A/B-DET [1:2]
To Main P.W. Board (2/5)
To Main P.W. Board (3/5)
CH401 Assy.: Unizon Connector
From Front P.W. Board (CH401)

NOTE: N. U. is Not Used Parts.

IC001

1	5V/ 0V	POWER ON/ OFF
2~5	0V	

IC002

1	8.3V/ 0V	POWER ON/ OFF
2	3.6V/ 0V	
3	4.5V/ 0V	
4	0V	
5	6.5V/ 0V	
6	4.4V/ 0V	
7, 8	8.3V/ 0V	

IC005

1~7	0V	POWER ON
8	4.9V	
9~13	0V	
14	4.9V	
15~20	0V	

IC501

1	0V	PACK IN/ OUT	44	5V/ 0V	DISPLAY SWITCHING/ Others
2~4	NC		45~48	PS	
5	0V		49, 50	NC	
6	5V		51	5V/ 0V	DIMMER OFF/ ON
7	5V/ 0V	DISC IN/ OUT	52, 53	NC	
8	NC		54~60	5V/ 0V	IN-INT ON/ OFF
9	5V		61~63	NC	
10, 11	PS		64, 65	5V	
12	0V		66	5V	
13	NC		67	0V	
14	0V		68	5V	
15	0V/ 5V	RESET ON/ OFF	69	5V	
16, 17	5V		70~72	0V	
18~20	PS		73	5V	
21, 22	5V/ 0V	DISK DET/ Others	74~80	NC	
23~25	5V		81	5V	
26	2.5V		82, 83	5V/ 0V	Power ON/ OFF
27	0V		84	NC	
28	PS		85	5V/ 0V	Power ON/ OFF
29~31	0V		86	5V	
32	5V		87	5V/ PS	DIMMER OFF/ ON
33	0V		88	PS	
34	NC		89	NC	
35	PS		90	0V/ 5V	Power ON/ OFF
36	5V		91	PS	
37~39	PS		92, 93	NC	
40	0V/ 5V	TUNER/ CD	94	0V	
41	0V		95~99	NC	
42	PS		100	—	
43	5V/ 0V	MODE CHANGE (TUNER)/ Others			

IC502

1	5V		69	5V/ 0V	POWER ON/ OFF
2	NC		70	NC	
3~5	0V		71, 72	5V/ 0V	POWER ON/ OFF
6, 7	PS		73~75	PS	
8	0V		76	5V/ 0V	POWER ON/ OFF
9	5V/ 0V	POWER ON/ OFF	77	NC	
10~22	NC		78, 79	5V/ 0V	POWER ON/ OFF
23	0V		80	5V	
24~33	NC		81	NC	
34	5V/ 0V	POWER ON/ OFF	82	5V/ 0V	POWER ON/ OFF
35~38	0V		83	NC	
39~44	NC		84	0V	
45, 46	PS		85	SIGNAL	
47~49	NC		86	5V/ 0V	POWER ON/ OFF
50	5V		87~92	0V	
51, 52	NC		93, 94	5V	
53~57	PS		95, 96	NC	
58~62	0V		97	5V/ 0V	POWER ON/ OFF
63, 64	PS		98	NC	
65, 66	NC		99	5V/ 0V	POWER ON/ OFF
67	5V/ 0V	POWER ON/ OFF	100	NC	
68	0V				

IC503

1~4	0V
5, 6	5V
7	0V
8	5V

	E	C	B	MODE
Q002	0V	8.4V	0V	LO → DX
Q501	5V/ 5V	5V/ 0V	0V/ 5V	NOSE ON/ OFF
Q502	0V	5V/ 0V	5V/ 0V	NOSE ON/ OFF
Q690	0V	0V	5V	NOSE ANGLE-1
Q810	5V/ 0V	12.6V/ 0V	5.6V/ 0V	POWER ON/ OFF
Q812	8.4V/ 8.4V	8.3V/ 0V	0V/ 8.4V	FM/ AM
Q813	8.4V/ 8.4V	0V/ 8.2V	8.3V/ 7.6V	FM/ AM
Q814	0V	0V/ 8.4V	2.8V/ 0V	FM/ AM
Q870	8.4V/ 0V	12.6V/ 0V	9V/ 0V	POWER ON/ OFF
Q871	5.7V/ 0V	9V/ 0V	6.3V/ 0V	POWER ON/ OFF

	1	2	3	4	5	MODE
Q003	NC	0V	5V	0V	0V	POWER ON
Q005	0V	0V	0V	0V	5V	SEEK ON
Q010	NC	5V/ 0V	5V/ 5V	8.4V/ 0V	0V	POWER ON/ OFF

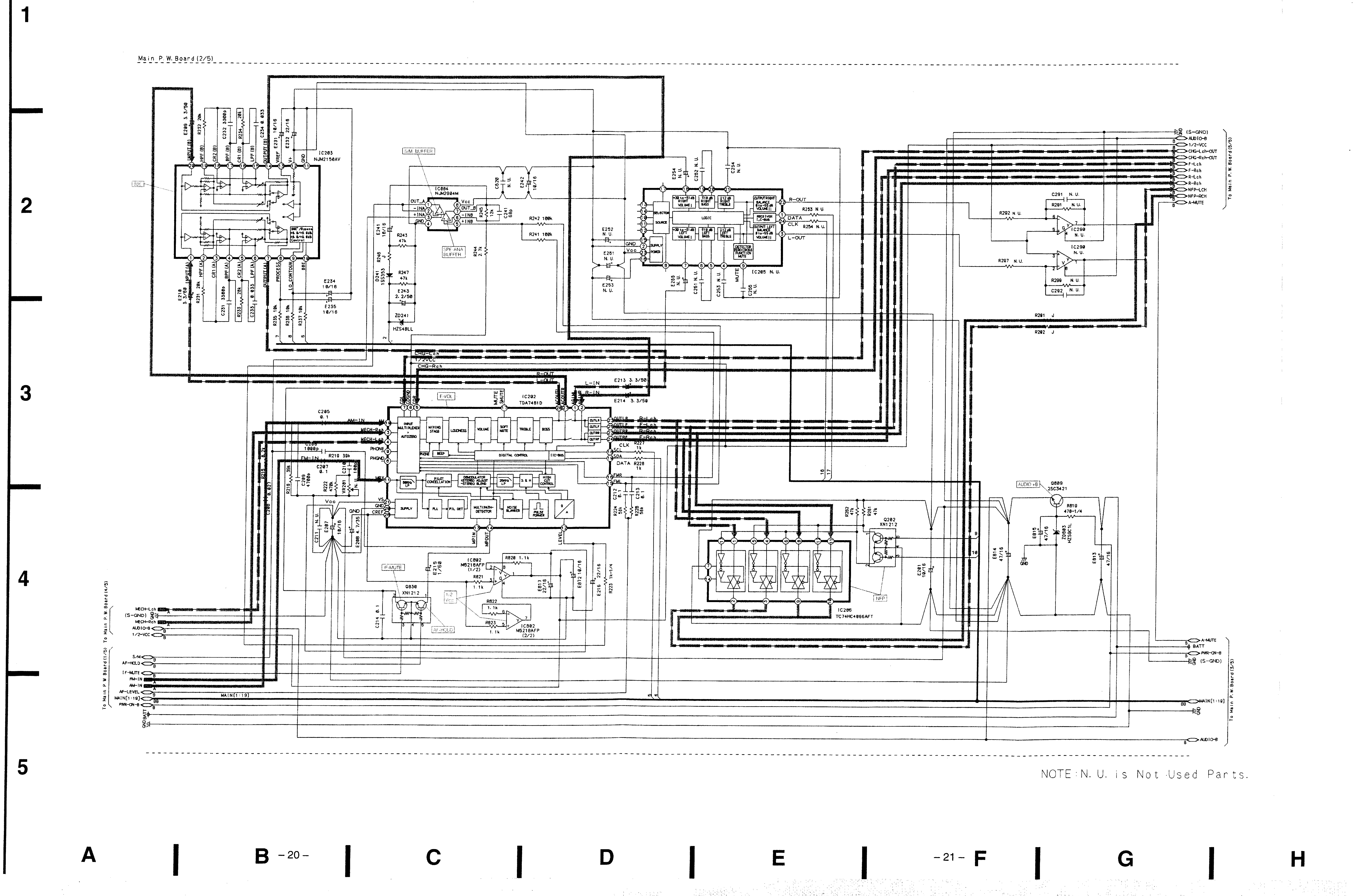
<Measuring Conditions>

1. Power Supply Voltage	: DC14.4V
2. Measuring Meter	: Digital Multi Meter
3. Measuring Point Reference	: Between Ground
4. Measuring Conditions	: No Signal Input
	FM : 98.1MHz
	AM : 999kHz (MW)
	MD : MD Play

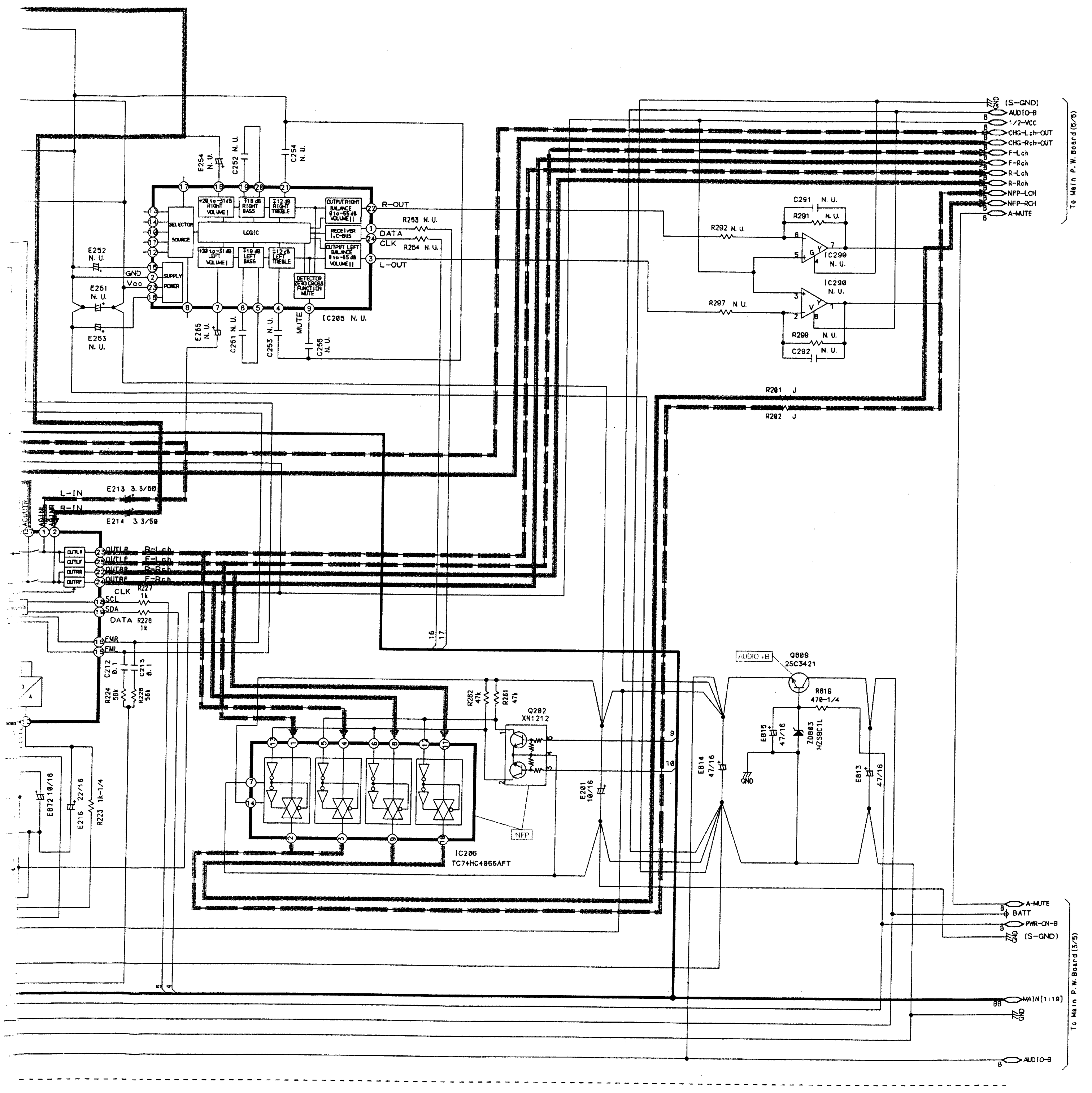
NOTE:

1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. $P = \frac{1}{1,000,000}$

Schematic Diagram (2/7)


1
2
3
4
5
A
B
C
D
E
F
G
H
Main P.W. Board (2/5)
IC203 NJM2150AV
INPUT(B)
HPF(B)
CR2(B)
BPF(B)
CR1(B)
LPF(B)
OUTPUT(B)
VREF
GND
INPUT(A)
HPF(A)
CR1(A)
BPF(A)
CR2(A)
LPF(A)
OUTPUT(A)
PROCESS
LO_CONTOUR
BBE
E209 3.3/50
R232 20k
C232 3300p
R234 20k
C234 0.033
E231 10/16
E232 22/16
E210 3.3/50
R231 20k
C231 3300p
R233 20k
C233 0.033
R235 10k
R236 10k
R237 10k
E234 10/16
E235 10/16
S/M BUFFER
IC004 NJM2904M
OUT_A
-INA
+INA
GND
Vcc
OUT_B
-INB
+INB
SPE ANA BUFFER
R245 12k
C241 680
C520 N.U.
E242 10/16
R242 100k
R241 100k
E241 10/16
R243 47k
R246 J
D241 1SS353
R247 47k
E243 2.2/50
ZD241 HZS4BLL
R244 2.7k
E254 N.U.
C262 N.U.
C264 N.U.
E252 N.U.
E261 N.U.
E253 N.U.
GND
Vcc
SELECTOR
SOURCE
SUPPLY POWER
LOGIC
RIGHT VOLUME
RIGHT BASS
RIGHT TREBLE
LEFT VOLUME
LEFT BASS
LEFT TREBLE
OUTPUT RIGHT BALANCE
RECEIVER I2C-BUS
OUTPUT LEFT BALANCE
DETECTOR ZERO CROSS FUNCTION MUTE
R-OUT
DATA
CLK
L-OUT
R253 N.U.
R254 N.U.
IC205 N.U.
E265 N.U.
C261 N.U.
C253 N.U.
MUTE
C265 N.U.
CHG-Lch
1/2VCC
CHG-Rch
R-OUT
L-OUT
L-IN
R-IN
E213 3.3/50
E214 3.3/50
E-VOL
IC202 TDA7481D
MUTE
SMUTE
C205 0.1
AM-IN
MECH-Rch
MECH-Lch
PHONE
PHGND
INPUT MULTIPLEXER + AUTOZERO
MIXING STAGE
LOUDNESS
VOLUME
SOFT MUTE
TREBLE
BASS
PHONE
BEEP
DIGITAL CONTROL
I2C-BUS
OUTLR
OUTLF
OUTRR
OUTRF
R-Lch
F-Lch
R-Rch
F-Rch
CLK
R227 1k
SCL
SDA
DATA
R228 1k
C206 1000p
R219 39k
FM-IN
C207 0.1
C210
R218 39k
C209 4700p
R222 470k
VR201
MPX
80kHz LP
PILOT CANCELLATION
DEMODULATOR STEREO ADJUST STEREO BLEND
25kHz LP
S&H
HIGH CUT CONTROL
FMR
FML
VS
GND
CREF
Vcc
SUPPLY
PLL
PIL DET
MULTIPATH DETECTOR
NOISE BLANKER
PULSE FORMER
MPIN
MPOUT
LEVEL
C212
C213 0.1
R224 22k
R226 56k
C211 N.U.
E207 10/16
E208 4.7/35
C208 0.027
R215
IF-MUTE
Q830 XN1212
C214 0.1
E215 1/50
IC802 M5218AFP (1/2)
R820 1.1k
R821 1.1k
R822 1.1k
R823 1.1k
1/2 Vcc
AF-HOLD
IC802 M5218AFP (2/2)
E817 22/16
E812 10/16
E216 22/16
R225 1k-1/4
IC206 TC74HC4066AFT
NFP
R262 47k
R261 47k
Q202 XN1212
E201 10/16
AUDIO+B
Q809 2SC3421
R810 470-1/4
E815 47/16
ZD803 HZ5C1L
E814 47/16
E813 47/16
GND
R292 N.U.
C291 N.U.
R291 N.U.
IC290 N.U.
R297 N.U.
R290 N.U.
C292 N.U.
R201 J
R202 J
(S-GND)
AUDIO-B
1/2-VCC
CHG-Lch-OUT
CHG-Rch-OUT
F-Lch
F-Rch
R-Lch
R-Rch
NFP-LCH
NFP-RCH
A-MUTE
To Main P.W. Board (5/5)
MECH-Lch
(S-GND)
MECH-Rch
AUDIO-B
1/2-VCC
To Main P.W. Board (4/5)
S/M
AF-HOLD
IF-MUTE
FM-IN
AM-IN
AF-LEVEL
MAIN[1:19]
PWR-ON-B
GND
BATT
To Main P.W. Board (1/5)
MAIN[1:19]
A-MUTE
BATT
PWR-ON-B
(S-GND)
MAIN[1:19]
GND
AUDIO-B
To Main P.W. Board (3/5)

NOTE: N. U. is Not Used Parts.


E254 N. U.
C252 N. U.
C254 N. U.
E252 N. U.
E251 N. U.
E253 N. U.
GND
Vcc
SELECTOR
SOURCE
SUPPLY
POWER
+20 to -31dB RIGHT VOLUME I
∓18 dB RIGHT BASS
∓12 dB RIGHT TREBLE
LOGIC
+20 to -31dB LEFT VOLUME I
∓18 dB LEFT BASS
∓12 dB LEFT TREBLE
OUTPUT RIGHT BALANCE 0 to -55 dB VOLUME II
RECEIVER I,C-BUS
OUTPUT LEFT BALANCE 0 to -55 dB VOLUME II
DETECTOR ZERO CROSS FUNCTION MUTE
R-OUT
DATA
CLK
L-OUT
R253 N. U.
R254 N. U.
IC205 N. U.
E265 N. U.
C251 N. U.
C253 N. U.
MUTE
C255 N. U.
(S-GND)
AUDIO-B
1/2-VCC
CHG-Lch-OUT
CHG-Rch-OUT
F-Lch
F-Rch
R-Lch
R-Rch
NFP-LCH
NFP-RCH
A-MUTE
To Main P. W. Board (5/5)
C291 N. U.
R291 N. U.
R292 N. U.
IC290 N. U.
R297 N. U.
R299 N. U.
C292 N. U.
R201 J
R202 J
L-IN
R-IN
E213 3.3/50
E214 3.3/50
OUTLR
OUTLF
OUTRR
OUTRF
R-Lch
F-Lch
R-Rch
F-Rch
CLK
SCL
SDA
DATA
R227 1k
R228 1k
FMR
FML
C212 0.1
C213 0.1
R224 56k
R226 56k
E872 10/16
E216 22/16
R223 1k-1/4
16
17
R262 47k
R261 47k
Q202 XN1212
NFP
IC206 TC74HC4066AFT
E201 10/16
AUDIO +B
Q809 2SC3421
R818 470-1/4
E815 47/16
ZD803 HZS9C1L
E814 47/16
E813 47/16
GND
A-MUTE
BATT
PWR-ON-B
(S-GND)
MAIN[1:10]
GND
AUDIO-B
To Main P. W. Board (3/5)

NOTE : N. U. is Not Used Parts.

IC004

1~4	0V	POWER ON/ OFF
5~7	4.4V/ 0V	
8	8.8V/ 0V	

IC202

1	0V	POWER ON	15~17	4.4V	POWER ON
2~4	4.4V		18	0V	
5, 6	0V		19	5V	
7	4.4V		20	0V	
8, 9	NC		21	8.8V	
10, 11	4.4V	POWER ON	22~25	3.7V	
12~14	0V		26~28	4.4V	

IC203

1~7	4.4V/ 4.4V	BBE ON/ OFF
8	0V	
9, 10	4.6V/ 0V	
11	0V	
12	8.7V/ 8.7V	
13	4.3V/ 4.4V	
14~20	4.4V/ 4.4V	

IC206

1~4	3.8V
5	0V
6	8.8V
7	0V
8~11	3.8V
12	0V
13, 14	8.8V

IC802

1~3	4.4V/ 0V	POWER ON/ OFF
4	0V	
5~7	4.4V/ 0V	
8	8.8V/ 0V	

Q830

1	5V/ 0V	POWER ON/ OFF
2	1V	MODE CHANGE
3	2.7V/ 0V	POWER ON/ OFF
4, 5	0V	

	E	C	B	MODE
Q809	8.7V/ 0V	12.6V/ 12.7V	9.4V/ 0V	POWER ON/ OFF

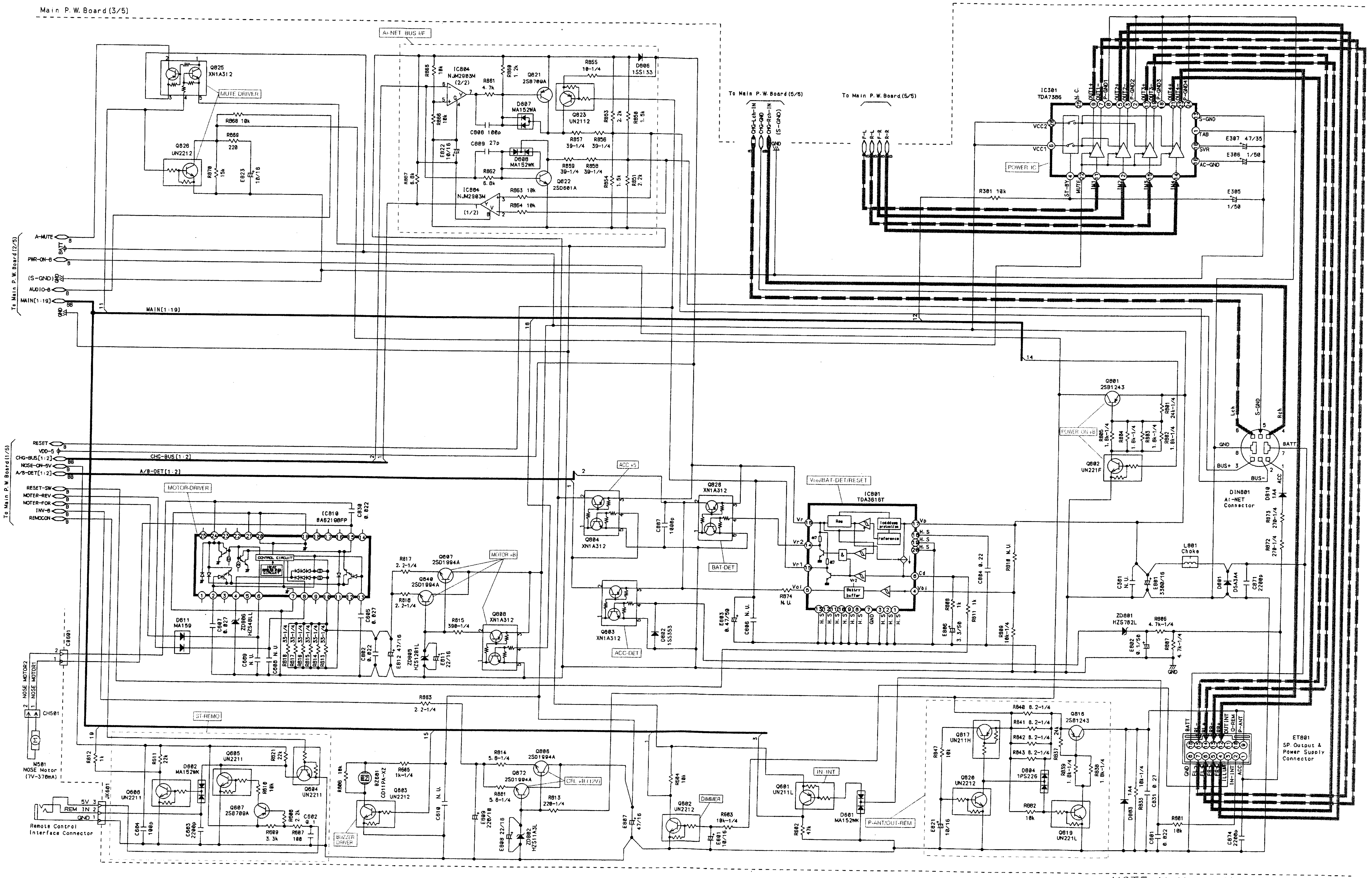
	1	2	3	4	5	MODE
Q202	8.8V	0V	5V	0V	0V	NFP ON

<Measuring Conditions>

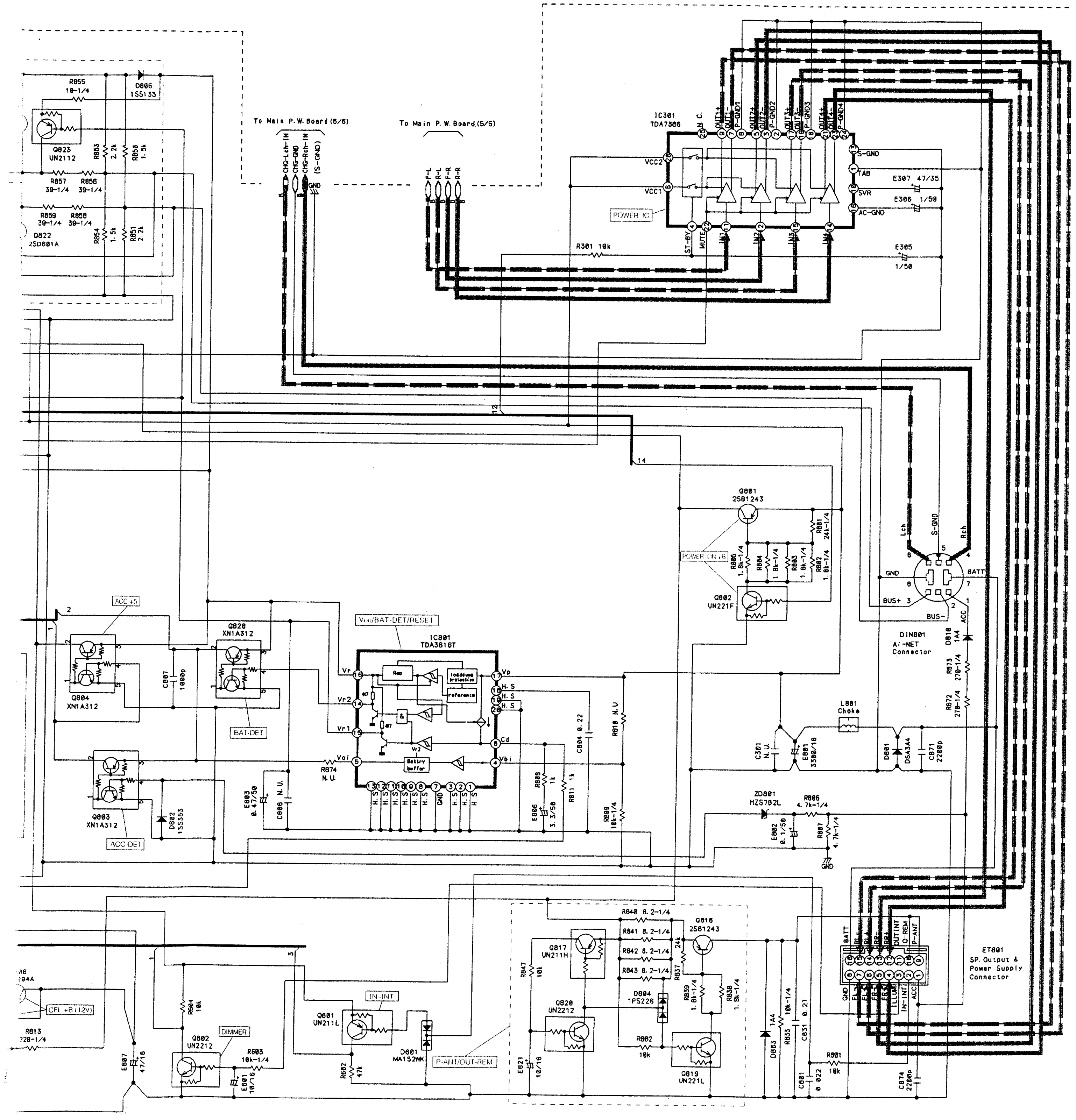
1. Power Supply Voltage : DC14.4V
2. Measuring Meter : Digital Multi Meter
3. Measuring Point Reference : Between Ground
4. Measuring Conditions : No Signal Input
   FM : 98.1MHz
   AM : 999kHz (MW)
   MD : MD Play

NOTE:
1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. $P = \frac{1}{1,000,000}$

Schematic Diagram (3/7)


1
2
3
4
5
Main P.W. Board (3/5)
AI-NET BUS I/F
Q825 XN1A312
MUTE DRIVER
R868 10k
R869 220
Q826 UN2212
R870 15k
E823 10/16
IC804 NJM2903M (2/2)
IC804 NJM2903M (1/2)
R861 4.7k
R860 1.2k
Q821 2SB709A
D807 MA152WA
Q823 UN2112
R855 10-1/4
D806 1SS133
C808 100p
C809 27p
D808 MA152WK
E822 10/16
R862 6.8k
R863 10k
R864 10k
R857 39-1/4
R856 39-1/4
R859 39-1/4
R858 39-1/4
Q822 2SD601A
R853 2.2k
R854 1.5k
R852 1.5k
R851 2.2k
R865 10k
R866 10k
R867 6.8k
To Main P.W. Board (2/5)
A-MUTE
BATT
PWR-ON-B
(S-GND)
AUDIO-B
MAIN[1:19]
GND
MAIN[1:19]
To Main P.W. Board (5/5)
CHG-Lch-IN
CHG-GND
CHG-Rch-IN
(S-GND)
To Main P.W. Board (5/5)
F-L
R-L
F-R
R-R
IC301 TDA7386
POWER IC
VCC2
VCC1
ST-BY
MUTE
S-GND
TAB
SVR
AC-GND
E307 47/35
E306 1/50
E305 1/50
R301 10k
Q801 2SB1243
POWER ON+B
Q802 UN221F
R805
R804
R803
R802
R801
Lch
S-GND
Rch
GND
BATT
BUS+
BUS-
ACC
DIN801 AI-NET Connector
D810 1A4
R873 270-1/4
R872 270-1/4
To Main P.W. Board (1/5)
RESET
VDD-5
CHG-BUS[1:2]
NOSE-ON-5V
A/B-DET[1:2]
RESET-SW
MOTER-REV
MOTER-FOR
INV-B
REMOCON
CHG-BUS[1:2]
A/B-DET[1:2]
MOTOR-DRIVER
IC810 BA6219BFP
C830 0.022
CONTROL CIRCUIT
D811 MA159
C807 0.027
ZD806 HZS4BLL
C809 N.U.
C808 N.U.
R818 33-1/4
R819 33-1/4
R815 33-1/4
R814 33-1/4
R813 33-1/4
C805 0.027
C802 0.022
E812 47/16
ZD805 HZS12B1L
E811 22/16
R817 2.2-1/4
R818 2.2-1/4
Q807 2SD1994A
Q840 2SD1994A
MOTOR+B
R815 390-1/4
Q808 XN1A312
ACC+5
Q804 XN1A312
C807 1000p
Q828 XN1A312
BAT-DET
Q803 XN1A312
ACC-DET
D802 1SS353
Vcc/BAT-DET/RESET
IC801 TDA3616T
Reg
Loaddump protection
Reference
Battery buffer
R874 N.U.
E803 0.47/50
C806 N.U.
C804 0.22
R810 N.U.
R808 1k
E806 3.3/50
R811 1k
R809 10k-1/4
C301 N.U.
E801 3300/16
L801 Choke
D801 D5A3A4
C871 2200p
ZD801 HZS7B2L
R806 4.7k-1/4
E802 0.1/50
R807 4.7k-1/4
GND
C801
NOSE MOTOR2
NOSE MOTOR1
CH501
M501 NOSE Motor (7V-370mA)
R812 1k
JK601
5V
REM IN
GND
Remote Control Interface Connector
ST-REMO
R611 22k
D602 MA152WK
Q605 UN2211
R621 22k
Q606 UN2211
Q604 UN2211
Q607 2SB709A
R610 10k
R608 2.2k
C602 1
C604 100p
C603 2200p
R609 3.3k
R607 100
R603 2.2-1/4
BZ601 C0111PA-X2
BUZZER DRIVER
R606 10k
R605 1k-1/4
Q603 UN2212
C610 N.U.
R614 5.6-1/4
Q606 2SD1994A
Q672 2SD1994A
CFL+B(12V)
R601 5.6-1/4
R613 220-1/4
E609 220/16
E608 22/16
ZD602 HZS11A3L
E607 47/16
R604 10k
Q602 UN2212
DIMMER
R603 10k-1/4
E604 10/16
Q601 UN211L
IN INT
R602 47k
D601 MA152WK
P-ANT/OUT-REM
R840 8.2-1/4
R841 8.2-1/4
R842 8.2-1/4
R843 8.2-1/4
Q816 2SB1243
Q817 UN211H
R847 10k
Q820 UN2212
E821 10/16
D804 1PS226
R839 1.8k-1/4
R838 8k-1/4
R802 10k
Q819 UN221L
D803 1A4
R833 10-1/4
C831 0.27
C801 0.022
R601 10k
C874 2200p
ET801 SP Output & Power Supply Connector
BATT
ILLUMI
P-ANT
IN-INT
OUT-INT
D-ANT
ACC
GND
A
B
C
D
E
F
G
H

NOTE N. U. is Not Used Parts.


R855 10-1/4
D806 1SS133
Q823 UN2112
R853 2.2k
R850 1.5k
R857 39-1/4
R856 39-1/4
R859 39-1/4
R858 39-1/4
Q822 2SD601A
R854 1.5k
R851 2.2k
To Main P.W.Board (5/5)
CHG-Lch-IN
CHG-GND
CHG-Rch-IN
(S-GND)
GND
To Main P.W.Board (5/5)
F-L
R-L
F-R
R-R
IC301
TDA7386
N.C.
OUT1+
OUT1-
P-GND1
OUT2+
OUT2-
P-GND2
OUT3+
OUT3-
P-GND3
OUT4+
OUT4-
P-GND4
VCC2
VCC1
POWER IC
S-GND
TAB
SVR
AC-GND
E307 47/35
E306 1/50
E305 1/50
R301 10k
ST-BY
MUTE
IN1
IN2
IN3
IN4
12
14
Q801
2SB1243
R881 24k-1/4
POWER ON +B
R805 1.8k-1/4
R804 1.8k-1/4
R803 1.8k-1/4
R802 1.8k-1/4
Q802
UN221F
Lch
S-GND
Rch
GND
BATT
BUS+
BUS-
ACC
DIN801
Ai-NET
Connector
D810 1A4
R873 270-1/4
R872 270-1/4
ACC +5
2
1
Q804
XN1A312
C807 1000p
Q828
XN1A312
BAT-DET
VDD/BAT-DET/RESET
IC801
TDA3616T
Vr
Vr2
Vr1
Voi
Vp
H.S
Cd
Vbi
GND
Reg
loaddump protection
reference
Battry buffer
R874 N.U.
E803 0.47/50
C806 N.U.
Q803
XN1A312
D802 1SS353
ACC-DET
C804 0.22
R810 N.U.
R808 1k
R811 1k
E806 3.3/50
R809 10k-1/4
L801
Choke
C301 N.U.
E801 3300/16
D801 DSA3A4
C871 2200p
ZD801
HZS7B2L
R806 4.7k-1/4
E802 0.1/50
R807 4.7k-1/4
GND
CFL +B (12V)
R813 220-1/4
E807 47/16
R604 10k
Q602
UN2212
DIMMER
R603 10k-1/4
E601 10/16
Q601
UN211L
IN-INT
R602 47k
D601
MA152WK
P-ANT/OUT-REM
R840 8.2-1/4
R841 8.2-1/4
R842 8.2-1/4
R843 8.2-1/4
Q817
UN211H
R847 10k
Q816
2SB1243
R837 24k
D804
1PS226
R839 1.8k-1/4
R838 1.8k-1/4
Q820
UN2212
R882 10k
Q819
UN221L
E821 10/16
D803 1A4
R833 10k-1/4
C831 0.27
C801 0.022
R801 10k
C874 2200p
BATT
RL-
RL+
RR-
RR+
OUT INT
O-REM
P-ANT
GND
FL-
FL+
FR-
FR+
ILLUM
IN-INT
ACC
ET801
SP. Output &
Power Supply
Connector

NOTE: N. U. is Not Used Parts.

IC301

1. 2	0V	14~17	5.8V
3	5.8V	18	0V
4	5V	19	5.8V
5	5.8V	20	11.5V
6	11.5V	21	5.8V
7	5.8V	22	5.2V
8	0V	23	5.8V
9	5.8V	24	0V
10~12	5.7V	25	NC
13	0V		

IC801

1~5	0V	POWER ON/ OFF
6	5V/ 5V	
7~13	0V	
14	4.4V/ 4.4V	
15, 16	5V/ 5V	
17	12.6V/ 12.6V	
18	12.3V/ 12.7V	
19, 20	0V	

IC804

1~5	0V	POWER ON/ OFF
6	7.4V/ 0V	
7, 8	5V/ 0V	

IC810

1	NC		9, 10	0V	NORMAL/ EJECT
2, 3	0V	NORMAL/ EJECT	11	12V/ 12V	
4	0V/ 4V		12~14	0V	
5	0V		15	0V/ 5V	
6	0V/ 4V		16~23	0V	
7	0V		24	0V/ 5V	
8	0V/ 4V		25	0V	

	E	C	B	MODE		E	C	B	MODE
Q601	4.9V	0V/ 4.9V	4.9V/ 3V	INT → GND	Q816	11.9V/ 0V	12.5V/ 0V	12.6V/ 0V	POWER ON/ OFF
Q602	0V	4.9V/ 0V	0V	DIMMER ON/ OFF	Q817	12.6V/ 0V	12.6V/ 0V	0V	POWER ON/ OFF
Q603	0V	14.34V	0V	BUZZER ON	Q819	0V	0V	2.87V	POWER ON
Q604	0V	0V	PS	POWER ON	Q820	0V	0V	8.9V/ 0V	POWER ON/ OFF
Q605	0V	0V	0V	POWER ON	Q821	5V/ 5V	PS	5V/ 5V	POWER ON/ OFF
Q606	0V	4.7V/ 0V	0V	NOSE ON/ OFF	Q822	0V	PS	0V	POWER ON
Q607	5V/ 0V	0V	5V/ 0V	POWER ON/ OFF	Q823	5V/ 5V	PS	5V/ 5V	POWER ON/ OFF
Q801	11.9V/ 12.7V	12.6V/ 0V	12.6V/ 12.6V	POWER ON/ OFF	Q826	0V	0V/ 5.2V	4.6V/ 0V	MUTE ON/ OFF
Q802	0V/ 13.1V	0V/ 13.1V	5V/ 0V	POWER ON/ OFF	Q840	12.6V	12.6V	12.1V	POWER ON
Q806	10.4V/ 0V	12.6V/ 12.8V	9.7V/ 0V	POWER ON/ OFF	Q872	10.3V/ 0V	12.6V/ 12.8V	9.7V/ 0V	POWER ON/ OFF
Q807	12.6V	12.6V	12.1V	POWER ON					

	1	2	3	4	5	MODE
Q803	NC	5V/ 0V	5V/ 5V	4V/ 0V	0V	ACC ON/ OFF
Q804	NC	5V/ 0V	5V/ 5V	5V/ 0V	0V	ACC ON/ OFF
Q808	NC	12.6V/ 12.7V	12.6V/ 12.7V	5V/ 5V	0V	POWER ON/ OFF
Q825	NC	12.4V/ 0V	12.6V/ 12.6V	4.6V/ 0V	0V	MUTE ON/ OFF
Q828	NC	5V/ 5V	5V/ 5V	4.4V/ 4.4V	0V	POWER ON/ OFF

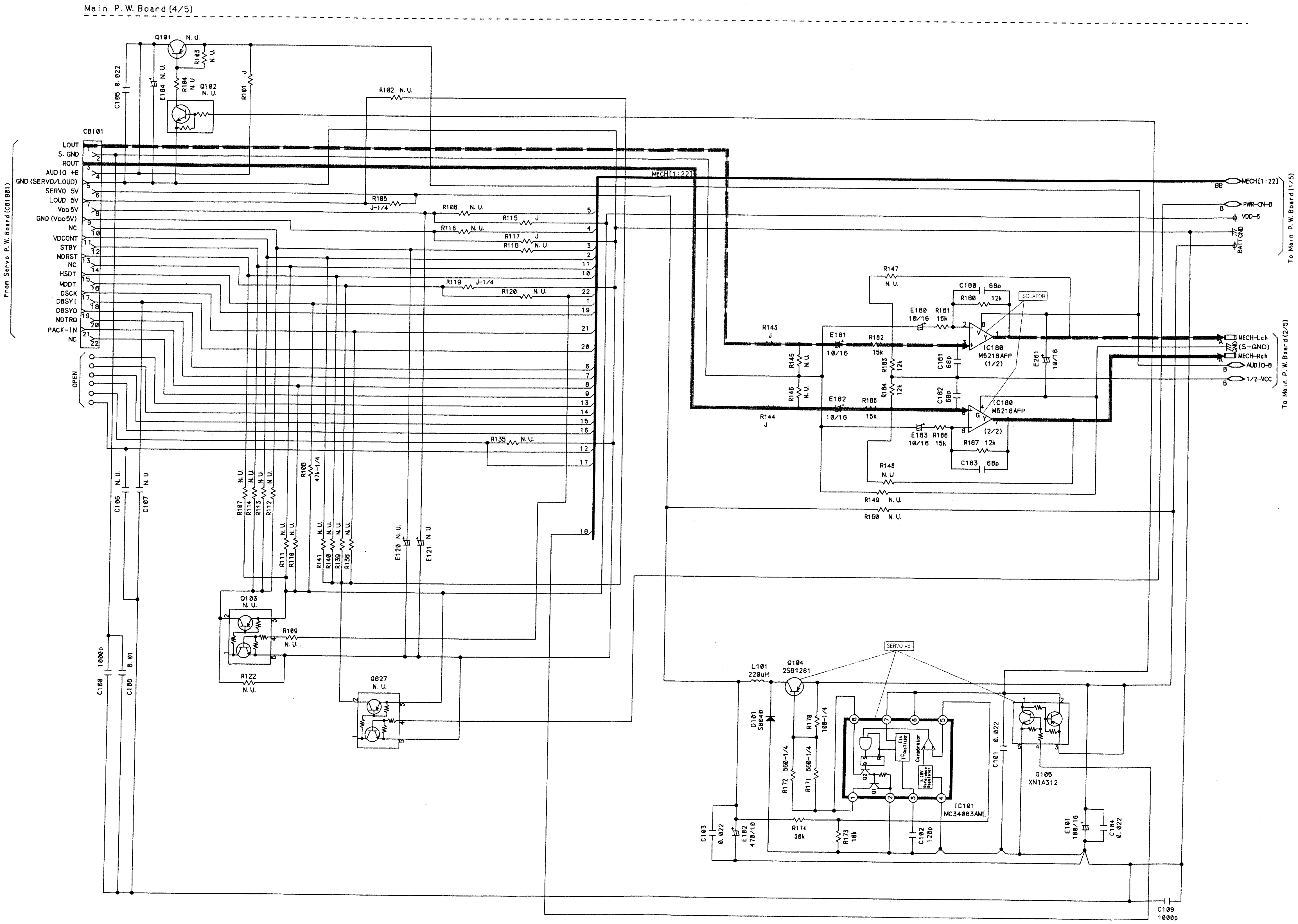
<Measuring Conditions>

1. Power Supply Voltage : DC14.4V
2. Measuring Meter : Digital Multi Meter
3. Measuring Point Reference : Between Ground
4. Measuring Conditions : No Signal Input
   FM : 98.1MHz
   AM : 999kHz (MW)
   MD : MD Play

NOTE:

1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. $P = \frac{1}{1,000,000}$

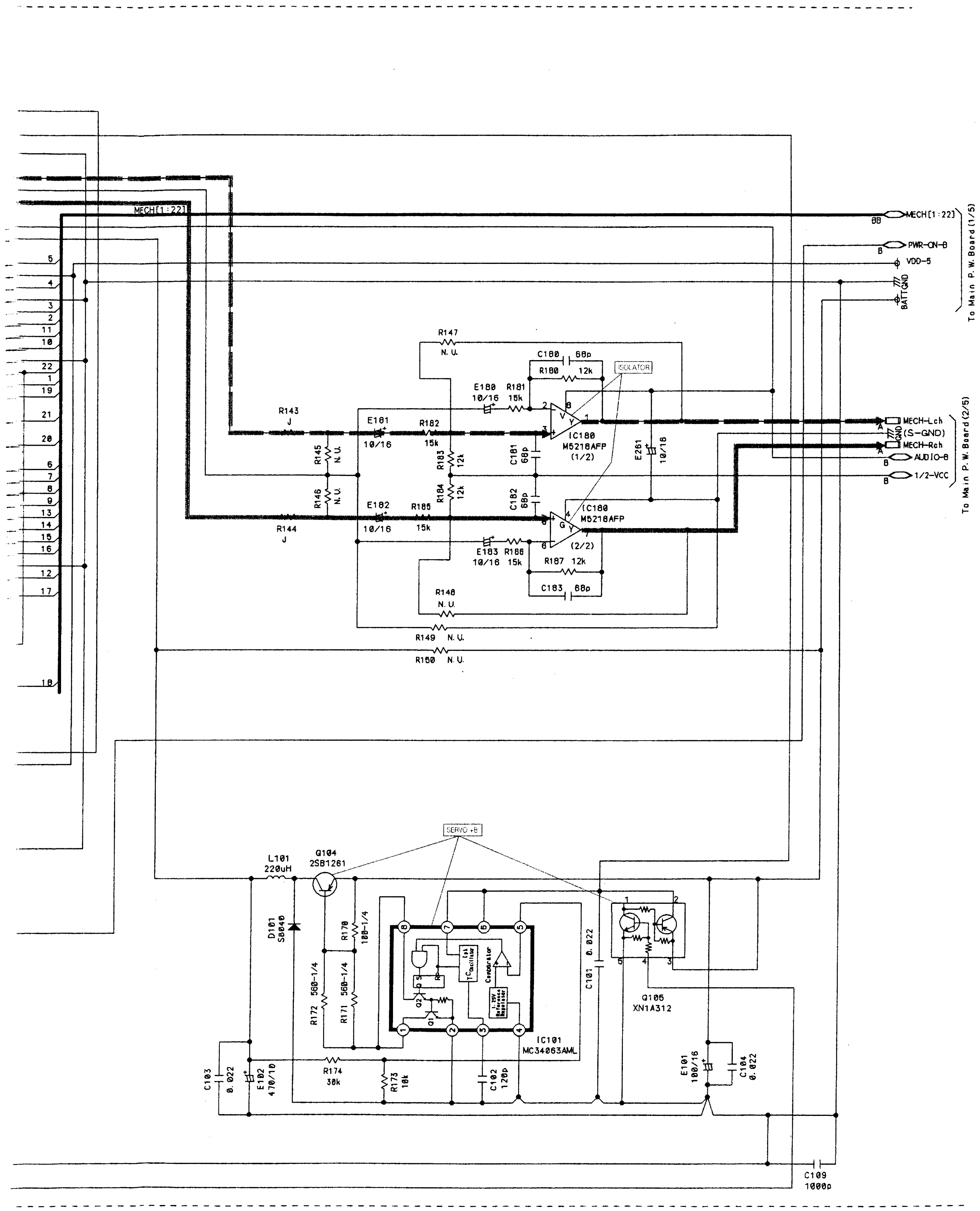
Schematic Diagram (4/7)


Main P.W. Board (4/5)
Q101 N.U.
R103 N.U.
E104 N.U.
R104 N.U.
Q102 N.U.
C105 0.022
R101 J
R102 N.U.
CB101
LOUT
S.GND
ROUT
AUDIO +B
GND (SERVO/LOUD)
SERVO 5V
LOUD 5V
VDD 5V
GND (VDD5V)
NC
VDCONT
STBY
MDRST
NC
HSDT
MDDT
DSCK
DBSYI
DBSYO
MDTRQ
PACK-IN
NC
From Servo P.W. Board (CB1001)
OPEN
MECH[1:22]
R105 J-1/4
R106 N.U.
R115 J
R116 N.U.
R117 J
R118 N.U.
R119 J-1/4
R120 N.U.
R135 N.U.
C106 N.U.
C107 N.U.
R107 N.U.
R114 N.U.
R113 N.U.
R112 N.U.
R108 47k-1/4
R111 N.U.
R110 N.U.
R141 N.U.
R140 N.U.
R139 N.U.
R138 N.U.
E120 N.U.
E121 N.U.
Q103 N.U.
R109 N.U.
R122 N.U.
Q827 N.U.
C108 1000p
C100 0.01
R147 N.U.
C180 68p
R180 12k
ISOLATOR
E180 10/16
R181 15k
R143 J
E181 10/16
R182 15k
R145 N.U.
R183 12k
C181 68p
IC180 M5218AFP (1/2)
E281 10/16
R146 N.U.
E182 10/16
R185 15k
R184 12k
C182 68p
IC180 M5218AFP (2/2)
R144 J
E183 10/16
R186 15k
R187 12k
C183 68p
R148 N.U.
R149 N.U.
R150 N.U.
MECH[1:22]
PWR-ON-B
VDD-5
BATTGND
To Main P.W. Board (1/5)
MECH-Lch
(S-GND)
MECH-Rch
AUDIO-B
1/2-VCC
To Main P.W. Board (2/5)
SERVO +B
L101 220uH
Q104 2SB1261
D101 SB040
R170 100-1/4
R172 560-1/4
R171 560-1/4
Ipk Oscillator
Comparator
1.25V Reference Regulator
IC101 MC34063AML
C101 0.022
Q105 XN1A312
C103 0.022
E102 470/10
R174 30k
R173 10k
C102 120p
E101 100/16
C104 0.022
C109 1000p

NOTE: N. U. is Not Used Parts.

1
2
3
4
5

A B C D E F G H


MECH[1:22]
5
4
3
2
11
10
22
1
19
21
20
6
7
8
9
13
14
15
16
12
17
18
BB
MECH[1:22]
B
PWR-ON-B
VDD-5
GND
BATT
To Main P. W. Board (1/5)
R147
N. U.
C180 68p
R180 12k
ISOLATOR
E180 10/16
R181 15k
R143
J
E181
10/16
R182
15k
R145 N. U.
R146 N. U.
R183 12k
R184 12k
C181 68p
C182 68p
IC180
M5218AFP
(1/2)
IC180
M5218AFP
(2/2)
E261 10/16
MECH-Lch
(S-GND)
GND
MECH-Rch
AUDIO-B
1/2-VCC
A
B
To Main P. W. Board (2/5)
R144
J
E182
10/16
R185
15k
E183 10/16
R186 15k
R187 12k
C183 68p
R148
N. U.
R149 N. U.
R150 N. U.
SERVO +B
L101
220uH
Q104
2SB1261
D101
SB040
R170 100-1/4
R172 560-1/4
R171 560-1/4
Comparator
1.25V Reference Regulator
Oscillator
Q1
Q2
IC101
MC34063AML
C101 0.022
Q105
XN1A312
C103 0.022
E102 470/10
R174 30k
R173 10k
C102 120p
E101 100/16
C104 0.022
C109
1000p

NOTE : N. U. is Not Used Parts.

IC101

1	10V/ 13.6V	MD/ Tuner
2~5	0V	
6, 7	13.6V/ 0V	
8	10V/ 13.6V	

IC180

1~3	4.4V/ 0V	POWER ON/ OFF
4	0V	
5~7	4.4V/ 0V	
8	8.8V/ 0V	

	E	C	B	MODE
Q104	13.7V/ 13.7V	5.2V/ 0V	13.3V/ 13.7V	MD/ Tuner

	1	2	3	4	5	MODE
Q105	NC	13.7V/ 0V	13.7V/ 13.7V	5V/ 0V	0V	MD/ Tuner

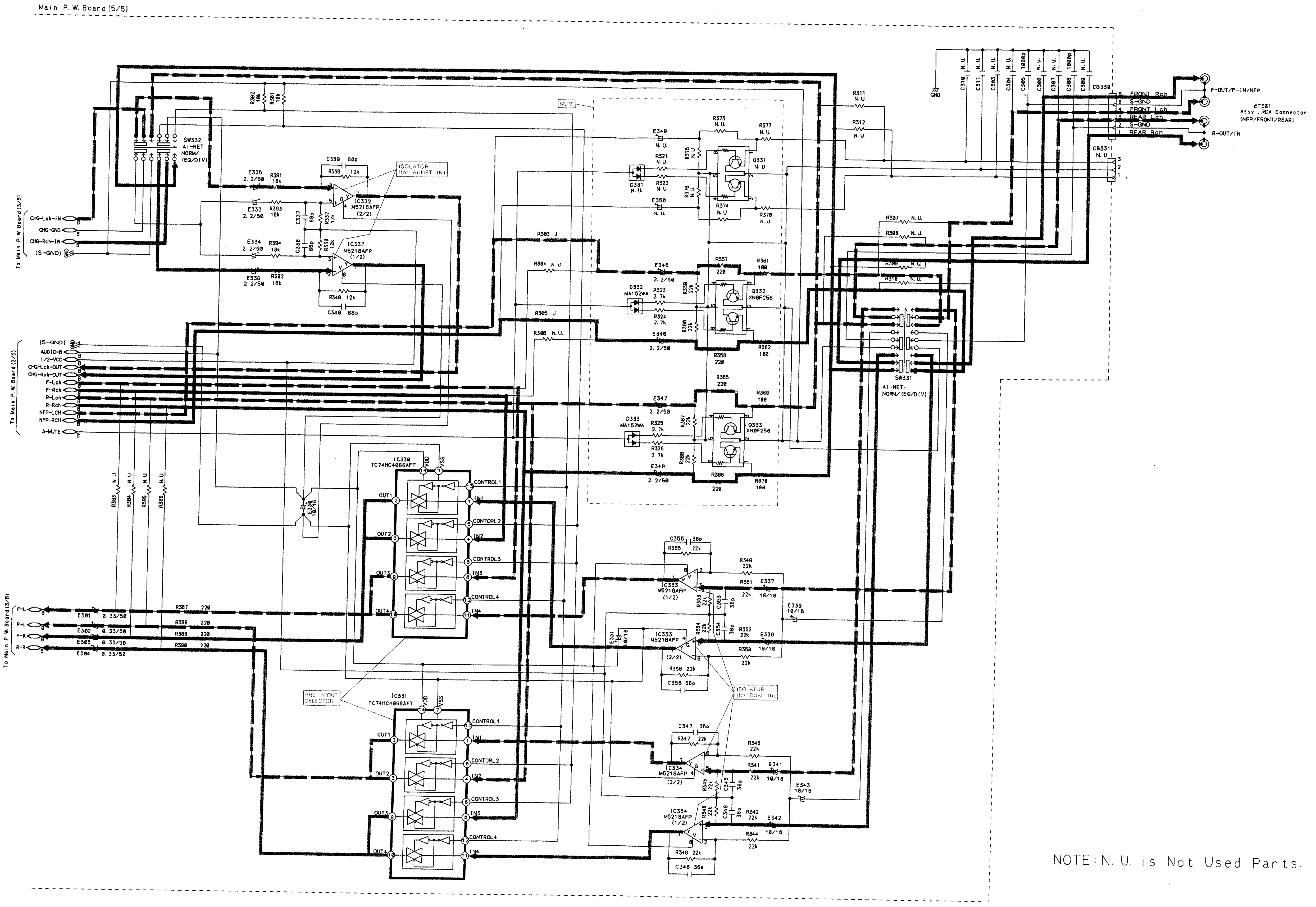
<Measuring Conditions>

1. Power Supply Voltage : DC14.4V
2. Measuring Meter : Digital Multi Meter
3. Measuring Point Reference : Between Ground
4. Measuring Conditions : No Signal Input
   FM : 98.1MHz
   AM : 999kHz (MW)
   MD : MD Play

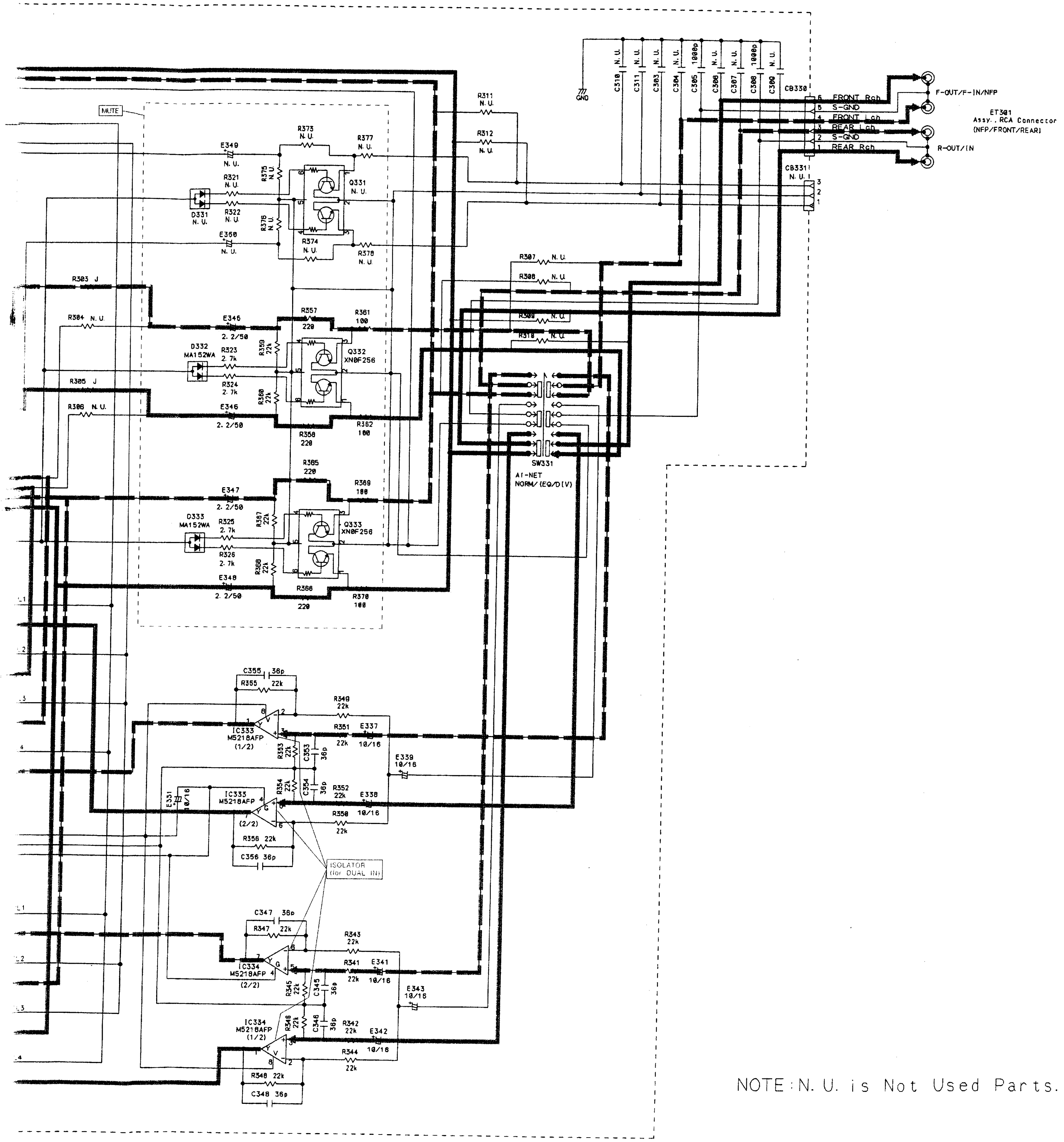
NOTE:

1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. $P = \frac{1}{1,000,000}$

Schematic Diagram (5/7)


Main P. W. Board (5/5)
To Main P. W. Board (3/5)
CHG-Lch-IN
CHG-GND
CHG-Rch-IN
(S-GND)
To Main P. W. Board (2/5)
AUDIO-B
1/2-VCC
CHG-Lch-OUT
CHG-Rch-OUT
F-Lch
F-Rch
R-Lch
R-Rch
NFP-LCH
NFP-RCH
A-MUTE
To Main P. W. Board (3/6)
F-L
R-L
F-R
R-R
SW332 Ai-NET NORM/(EQ/DIV)
ISOLATOR (for Ai-NET IN)
IC332 M5218AFP (2/2)
IC332 M5218AFP (1/2)
MUTE
Q331 N.U.
D331 N.U.
D332 MA152WA
Q332 XN0F256
D333 MA152WA
Q333 XN0F256
IC330 TC74HC4066AFT
IC331 TC74HC4066AFT
PRE IN/OUT SELECTOR
CONTROL1
CONTROL2
CONTROL3
CONTROL4
OUT1
OUT2
OUT3
OUT4
IN1
IN2
IN3
IN4
VDD
VSS
IC333 M5218AFP (1/2)
IC333 M5218AFP (2/2)
IC334 M5218AFP (2/2)
IC334 M5218AFP (1/2)
ISOLATOR (for DUAL IN)
SW331 Ai-NET NORM/(EQ/DIV)
CB330
CB331 N.U.
FRONT Rch
S-GND
FRONT Lch
REAR Lch
S-GND
REAR Rch
F-OUT/F-IN/NFP
R-OUT/IN
ET301 Assy., RCA Connector (NFP/FRONT/REAR)
GND

NOTE: N. U. is Not Used Parts.


MUTE
GND
C310 N. U.
C311 N. U.
C303 N. U.
C304 N. U.
C305 1000p
C306 N. U.
C307 N. U.
C308 1000p
C309 N. U.
CB330
6 FRONT Rch
5 S-GND
4 FRONT Lch
3 REAR Lch
2 S-GND
1 REAR Rch
F-OUT/F-IN/NFP
R-OUT/IN
ET301
Assy., RCA Connector
(NFP/FRONT/REAR)
CB331 N. U.
R311 N. U.
R312 N. U.
E349 N. U.
R373 N. U.
R377 N. U.
R321 N. U.
R322 N. U.
R375 N. U.
R376 N. U.
D331 N. U.
Q331 N. U.
E350 N. U.
R374 N. U.
R378 N. U.
R303 J
R304 N. U
R305 J
R306 N. U.
E345 2.2/50
R357 220
R361 100
D332 MA152WA
R323 2.7k
R324 2.7k
R359 22k
R360 22k
Q332 XN0F256
E346 2.2/50
R358 220
R362 100
R365 220
R369 100
E347 2.2/50
D333 MA152WA
R325 2.7k
R326 2.7k
R367 22k
R368 22k
Q333 XN0F256
E348 2.2/50
R366 220
R370 100
R307 N. U.
R308 N. U.
R309 N. U.
R310 N. U.
SW331
AI-NET
NORM/(EQ/DIV)
C355 36p
R355 22k
R340 22k
IC333 M5218AFP (1/2)
R351 22k
E337 10/16
R353 22k
C353 36p
E339 10/16
E331 10/16
IC333 M5218AFP (2/2)
R354 22k
C354 36p
R352 22k
E338 10/16
R350 22k
R356 22k
C356 36p
ISOLATOR (for DUAL IN)
C347 36p
R347 22k
R343 22k
IC334 M5218AFP (2/2)
R341 22k
E341 10/16
R345 22k
C345 36p
E343 10/16
IC334 M5218AFP (1/2)
R346 22k
C346 36p
R342 22k
E342 10/16
R344 22k
R348 22k
C348 36p

NOTE: N. U. is Not Used Parts.

IC330, 331

1	4.4V/ 0V	POWER ON/ OFF
2~4	3.7V/ 0V	
5, 6	8.8V/ 0V	
7, 8	0V	
9, 10	3.7V/ 0V	
11	4.4V/ 0V	
12, 13	0V	
14	8.8V/ 0V	

IC332

1~3	4.4V/ 0V	POWER ON/ OFF
4	0V	
5~7	4.4V/ 0V	
8	8.7V/ 0V	

IC333, 334

1~3	4.4V/ 0V	POWER ON/ OFF
4	0V	
5~7	4.4V/ 0V	
8	8.8V/ 0V	

	1	2	3	4	5	6	MODE
Q332	PS	0V	PS	10V/ 0V	0V	10V/ 0V	MUTE ON/ OFF
Q333	PS	0V	PS	10V/ 0V	0V	10V/ 0V	MUTE ON/ OFF

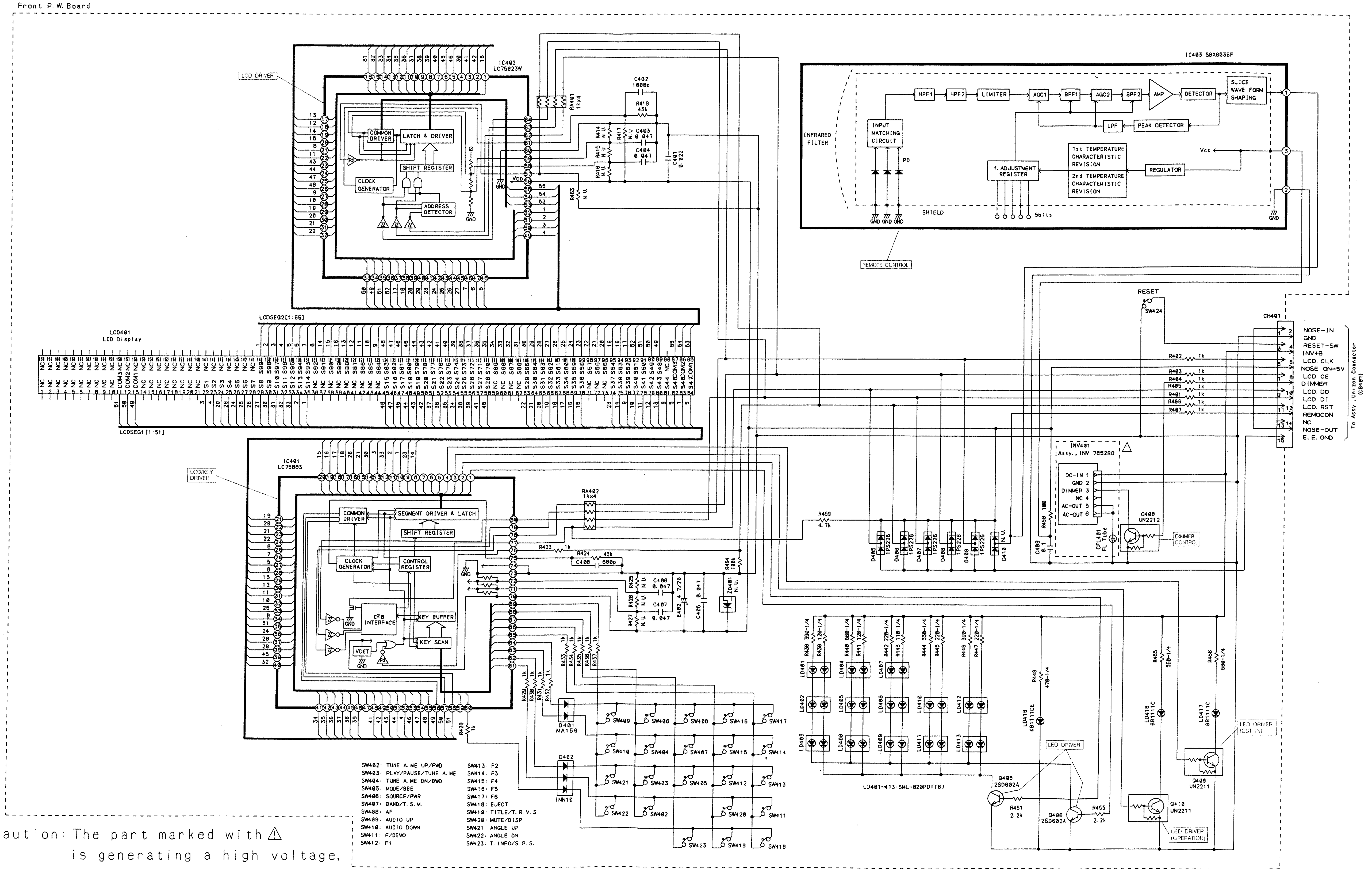
<Measuring Conditions>

1. Power Supply Voltage : DC14.4V
2. Measuring Meter : Digital Multi Meter
3. Measuring Point Reference : Between Ground
4. Measuring Conditions : No Signal Input
   FM : 98.1MHz
   AM : 999kHz (MW)
   MD : MD Play

NOTE:

1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. $P = \frac{1}{1,000,000}$

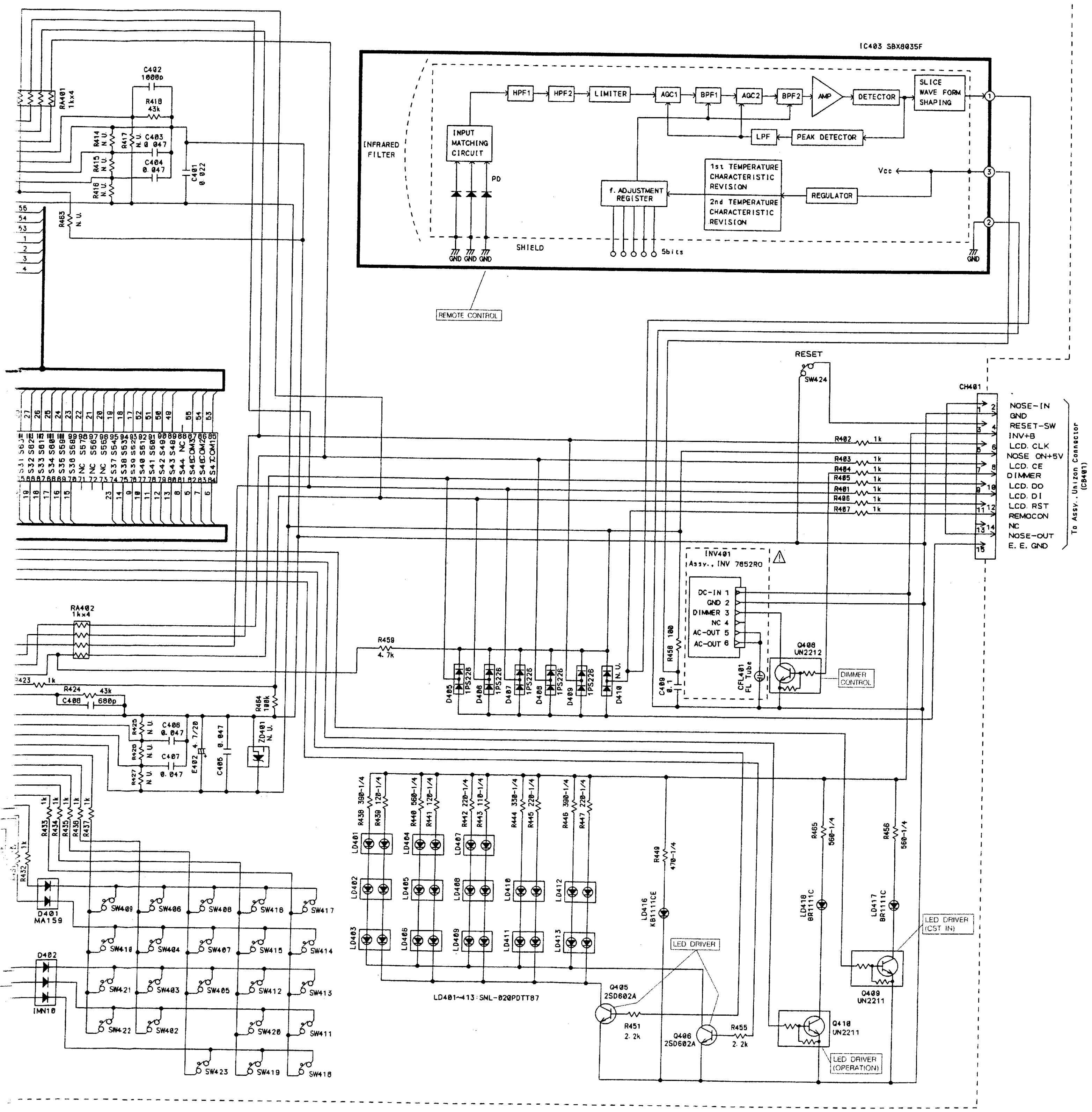
Schematic Diagram (6/7)


1
2
3
4
5
Front P. W. Board
LCD DRIVER
IC402
LC75823W
COMMON DRIVER
LATCH & DRIVER
SHIFT REGISTER
CLOCK GENERATOR
ADDRESS DETECTOR
VDD
GND
RA401
1kx4
C402
1000p
R418
43k
R414 N.U.
R417 N.U.
C403 0.047
R415 N.U.
C404 0.047
C401 0.022
R416 N.U.
R463 N.U.
IC403 SBX8035F
INFRARED FILTER
INPUT MATCHING CIRCUIT
PD
HPF1
HPF2
LIMITER
AGC1
BPF1
AGC2
BPF2
AMP
DETECTOR
SLICE WAVE FORM SHAPING
LPF
PEAK DETECTOR
Vcc
f. ADJUSTMENT REGISTER
1st TEMPERATURE CHARACTERISTIC REVISION
2nd TEMPERATURE CHARACTERISTIC REVISION
REGULATOR
SHIELD
GND GND GND
5bits
GND
REMOTE CONTROL
LCDSEG2[1:55]
LCD401
LCD Display
LCDSEG1[1:51]
RESET
SW424
CH401
NOSE-IN
GND
RESET-SW
INV+B
LCD. CLK
NOSE ON+5V
LCD. CE
DIMMER
LCD. DO
LCD. DI
LCD. RST
REMOCON
NC
NOSE-OUT
E. E. GND
To Assy., Unizon Connector (CB401)
R402 1k
R403 1k
R404 1k
R405 1k
R401 1k
R406 1k
R407 1k
IC401
LC75883
LCD/KEY DRIVER
COMMON DRIVER
SEGMENT DRIVER & LATCH
SHIFT REGISTER
CLOCK GENERATOR
CONTROL REGISTER
C2B INTERFACE
KEY BUFFER
KEY SCAN
VDET
RA402
1kx4
R423 1k
R424 43k
C408 680p
R425 N.U.
C406 0.047
R426 N.U.
C407 0.047
R427 N.U.
E402 4.7/20
C405 0.047
R464 100k
ZD401 N.U.
R433 1k
R434 1k
R435 1k
R436 1k
R437 1k
R429 1k
R430 1k
R431 1k
R432 1k
R428 1k
D401
MA159
D402
IMN10
SW409
SW406
SW408
SW416
SW417
SW410
SW404
SW407
SW415
SW414
SW421
SW403
SW405
SW412
SW413
SW422
SW402
SW420
SW411
SW423
SW419
SW418
INV401
Assy., INV 7852RO
DC-IN 1
GND 2
DIMMER 3
NC 4
AC-OUT 5
AC-OUT 6
CFL401 FL Tube
R458 100
C409 0.1
Q408
UN2212
DIMMER CONTROL
R459
4.7k
D405 1PS226
D406 1PS226
D407 1PS226
D408 1PS226
D409 1PS226
D410 N.U.
R438 390-1/4
R439 120-1/4
R440 560-1/4
R441 120-1/4
R442 220-1/4
R443 110-1/4
R444 330-1/4
R445 220-1/4
R446 390-1/4
R447 220-1/4
LD401
LD402
LD403
LD404
LD405
LD406
LD407
LD408
LD409
LD410
LD411
LD412
LD413
LD401~413: SML-020PDTT87
R449
470-1/4
LD416
KB1111CE
LED DRIVER
Q405
2SD602A
R451
2.2k
Q406
2SD602A
R455
2.2k
R465
560-1/4
LD418
BR1111C
Q410
UN2211
LED DRIVER (OPERATION)
R456
560-1/4
LD417
BR1111C
LED DRIVER (CST IN)
Q409
UN2211

SW402: TUNE A.ME UP/FWD
SW403: PLAY/PAUSE/TUNE A.ME
SW404: TUNE A.ME DN/BWD
SW405: MODE/BBE
SW406: SOURCE/PWR
SW407: BAND/T.S.M.
SW408: AF
SW409: AUDIO UP
SW410: AUDIO DOWN
SW411: F/DEMO
SW412: F1
SW413: F2
SW414: F3
SW415: F4
SW416: F5
SW417: F6
SW418: EJECT
SW419: TITLE/T.R.V.S.
SW420: MUTE/DISP
SW421: ANGLE UP
SW422: ANGLE DN
SW423: T.INFO/S.P.S.

Caution: The part marked with ⚠ is generating a high voltage, so care will be necessary when working.

NOTE: N.U. is Not Used Parts.


IC403 SBX8035F
INFRARED FILTER
INPUT MATCHING CIRCUIT
PD
HPF1
HPF2
LIMITER
AGC1
BPF1
AGC2
BPF2
AMP
DETECTOR
SLICE WAVE FORM SHAPING
LPF
PEAK DETECTOR
1st TEMPERATURE CHARACTERISTIC REVISION
2nd TEMPERATURE CHARACTERISTIC REVISION
f. ADJUSTMENT REGISTER
REGULATOR
Vcc
SHIELD
GND
5bits
REMOTE CONTROL
RESET
SW424
CN401
NOSE-IN
GND
RESET-SW
INV+B
LCD. CLK
NOSE ON+5V
LCD. CE
DIMMER
LCD. DO
LCD. DI
LCD. RST
REMOCON
NC
NOSE-OUT
E. E. GND
To Assy., Unizon Connector (CB401)
R402 1k
R403 1k
R404 1k
R405 1k
R401 1k
R406 1k
R407 1k
INV401 Assy., INV 7852RO
DC-IN 1
GND 2
DIMMER 3
NC 4
AC-OUT 5
AC-OUT 6
FL Tube
Q408 UN2212
DIMMER CONTROL
RA401 1k×4
RA402 1k×4
C402 1000p
R410 43k
R463 N.U.
R459 4.7k
R458 100
D405 1PS226
D406 1PS226
D407 1PS226
D408 1PS226
D409 1PS226
D410 N.U.
ZD401 N.U.
LD401-413: SML-020PDTT87
LD416 KB1111CE
LD418 BR1111C
LD417 BR1111C
R449 470-1/4
R465 560-1/4
R456 560-1/4
LED DRIVER
LED DRIVER (CST IN)
LED DRIVER (OPERATION)
Q405 2SD602A
Q406 2SD602A
Q409 UN2211
Q410 UN2211
R451 2.2k
R455 2.2k
D401 MA159
D402 IMN10
SW401
SW402
SW403
SW404
SW405
SW406
SW407
SW408
SW409
SW410
SW411
SW412
SW413
SW414
SW415
SW416
SW417
SW418
SW419
SW420
SW421
SW422
SW423

NOTE : N. U. is Not Used Parts.

IC401

1	4.6V	POWER ON	60~64	5V	POWER ON
2	4.7V		65~69	0V	
3, 4	4.9V		70	5V	
5~7	NC		71	3.3V	
8~46	PS	POWER ON	72~74	0V	
47	NC		75~77	5V	
48~58	PS	POWER ON	78~80	0V	
59	NC				

IC402

1~55	PS	POWER ON
56	5V	
57	0V	
58	3.3V	
59~64	0V	

IC403

1	PS	POWER ON
2	0V	
3	5V	

	E	C	B	MODE
Q405	8.4V/ 0V	7.5V/ 0V	7.5V/ 0V	POWER ON/ OFF
Q406	8.5V/ 0V	8V/ 0V	7.7V/ 0V	POWER ON/ OFF
Q408	6.5V/ 6.5V	0V/ 4.5V	5V/ 2.3V	POWER ON/ OFF
Q409	7V/ 0V	5.5V/ 0V	5.8V/ 0V	POWER ON/ OFF
Q410	7V/ 0V	5.5V/ 0V	5V/ 0V	POWER ON/ OFF

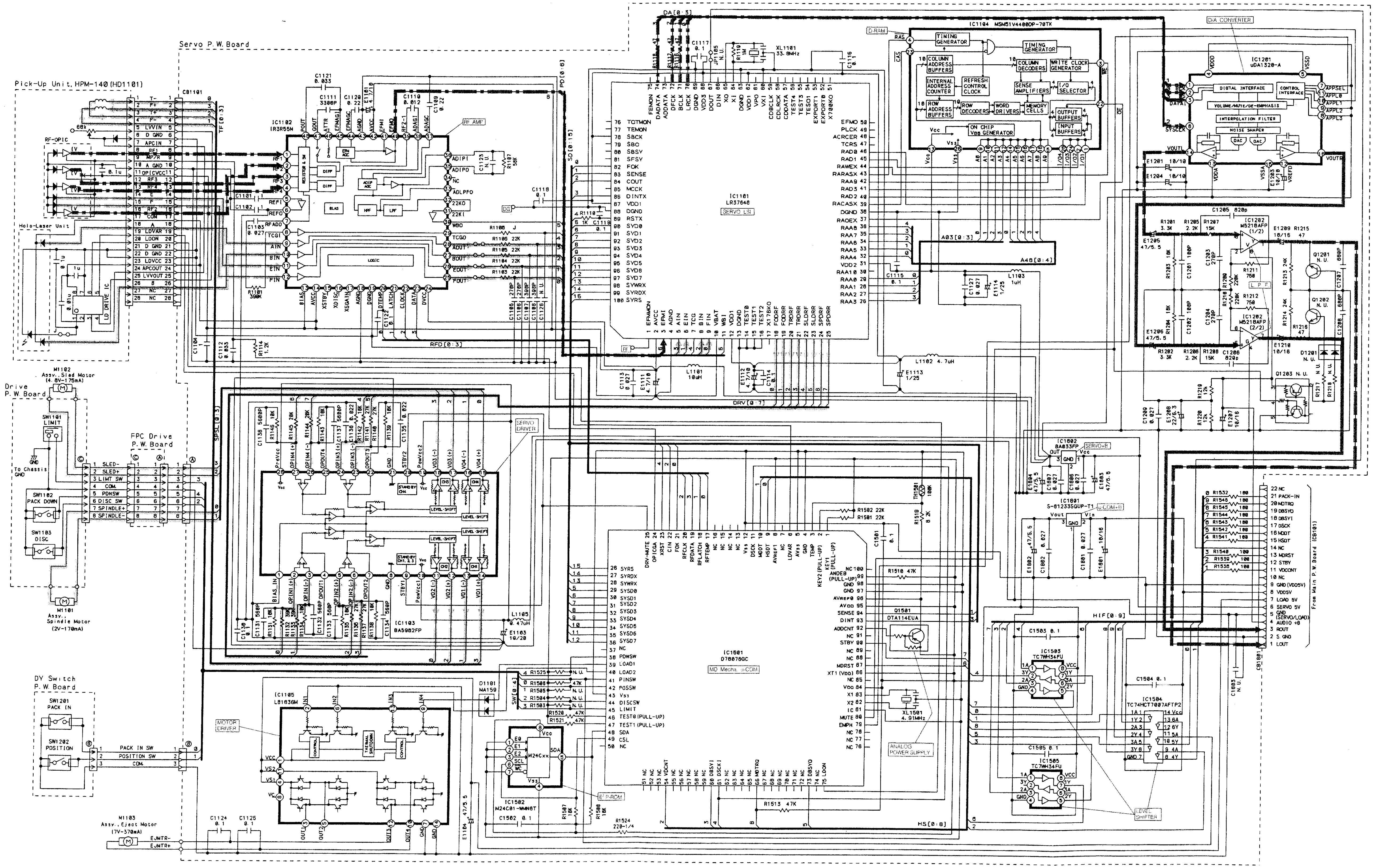
<Measuring Conditions>

1. Power Supply Voltage : DC14.4V
2. Measuring Meter : Digital Multi Meter
3. Measuring Point Reference : Between Ground
4. Measuring Conditions : No Signal Input
   FM : 98.1MHz
   AM : 999kHz (MW)
   MD : MD Play

NOTE:

1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. $P = \frac{1}{1,000,000}$

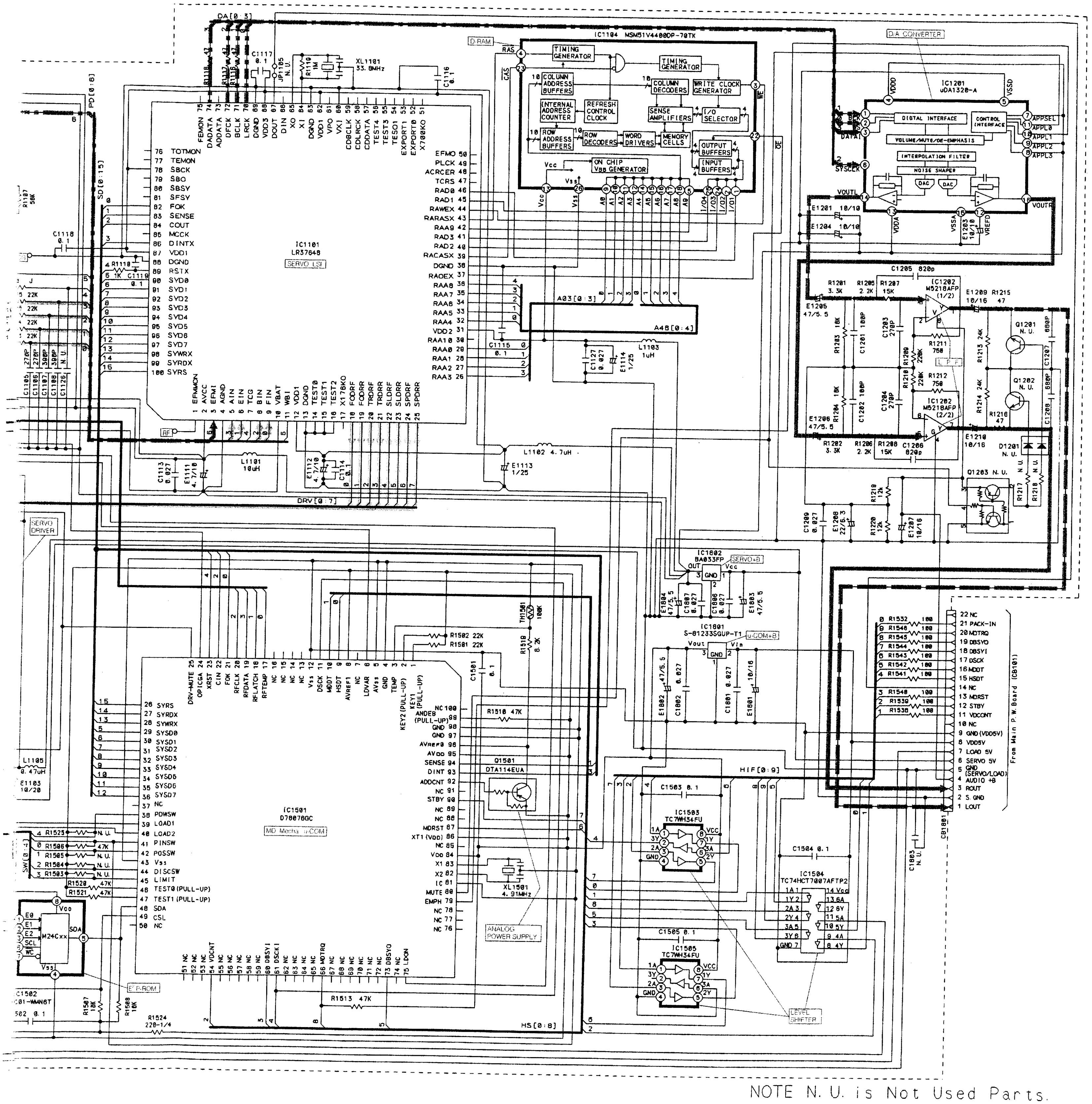
Schematic Diagram (7/7)


1
2
3
4
5
Pick-Up Unit, HPM-140 (HD1101)
RF-OPIC
Holo-Laser Unit
LD DRIVE IC
CB1101
Servo P.W. Board
IC1102
IR3R55M
RF AMP
IC1101
LR37648
SERVO LSI
IC1104 MSM51V4400DP-70TX
D-RAM
TIMING GENERATOR
COLUMN ADDRESS BUFFERS
COLUMN DECODERS
WRITE CLOCK GENERATOR
INTERNAL ADDRESS COUNTER
REFRESH CONTROL CLOCK
SENSE AMPLIFIERS
I/O SELECTOR
ROW ADDRESS BUFFERS
ROW DECODERS
WORD DRIVERS
MEMORY CELLS
OUTPUT BUFFERS
INPUT BUFFERS
ON CHIP VBB GENERATOR
XL1101
33.8MHz
D/A CONVERTER
IC1201
uDA1320-A
DIGITAL INTERFACE
CONTROL INTERFACE
VOLUME/MUTE/DE-EMPHASIS
INTERPOLATION FILTER
NOISE SHAPER
DAC
APPSEL
APPL0
APPL1
APPL2
APPL3
VOUTL
VOUTR
IC1202
M5218AFP
L.P.F
Q1201 N.U.
Q1202 N.U.
Q1203 N.U.
D1201 N.U.
Drive P.W. Board
M1102
Assy., Sled Motor
(4.8V-175mA)
SW1101 LIMIT
To Chassis GND
SW1102 PACK DOWN
SW1103 DISC
M1101
Assy., Spindle Motor
(2V-170mA)
FPC Drive P.W. Board
SLED-
SLED+
LIMT SW
COM
PDNSW
DISC SW
SPINDLE+
SPINDLE-
IC1103
BA5982FP
SERVO DRIVER
LEVEL SHIFT
STAND BY
IC1602
BA033FP
SERVO+B
IC1601
S-81233SGUP-T1
µ-COM+B
IC1501
D78076GC
MD Mecha. µCOM
Q1501
DTA114EUA
XL1501
4.91MHz
ANALOG POWER SUPPLY
IC1503
TC7WH34FU
IC1504
TC74HCT7007AFTP2
IC1505
TC7WH34FU
LEVEL SHIFTER
HIF[0:9]
HS[0:8]
DY Switch P.W. Board
SW1201 PACK IN
SW1202 POSITION
PACK IN SW
POSITION SW
COM
M1103
Assy., Eject Motor
(7V-570mA)
EJMTR-
EJMTR+
IC1105
LB1836M
MOTOR DRIVER
IC1502
M24C01-WMN6T
E²PROM
D1101
MA159
22 NC
21 PACK-IN
20 MDTRQ
19 DBSYO
18 DBSYI
17 DSCK
16 MDDT
15 HSDT
14 NC
13 MDRST
12 STBY
11 VDCONT
10 NC
9 GND(VDD5V)
8 VDD5V
7 LOAD 5V
6 SERVO 5V
5 GND (SERVO/LOAD)
4 AUDIO +B
3 ROUT
2 S GND
1 LOUT
From Main P.W Board (CB101)
CB1801

NOTE N. U. is Not Used Parts.

▬ MD signal Line
▬ Rch signal Line
▬ Lch signal Line
Focus Error signal Line
Trocking Error signal Line
Focus Error signal Line
Trock Error signal Line

A B C D E F G H


IC1101
LR37648
SERVO LSI
IC1104 MSM51V4400DP-70TK
D-RAM
TIMING GENERATOR
COLUMN ADDRESS BUFFERS
COLUMN DECODERS
WRITE CLOCK GENERATOR
INTERNAL ADDRESS COUNTER
REFRESH CONTROL CLOCK
SENSE AMPLIFIERS
I/O SELECTOR
ROW ADDRESS BUFFERS
ROW DECODERS
WORD DRIVERS
MEMORY CELLS
OUTPUT BUFFERS
INPUT BUFFERS
ON CHIP VBB GENERATOR
D/A CONVERTER
IC1201
uDA1320-A
DIGITAL INTERFACE
CONTROL INTERFACE
VOLUME/MUTE/DE-EMPHASIS
INTERPOLATION FILTER
NOISE SHAPER
DAC
VOUTL
VOUTR
APPSEL
APPL0
APPL1
APPL2
APPL3
IC1202
M5218AFP
(1/2)
(2/2)
Q1201 N. U.
Q1202 N. U.
Q1203 N. U.
D1201 N. U.
XL1101 33. 8MHz
A03[0:3]
A48[0:4]
DRV[0:7]
SD[0:15]
PD[0:6]
DA[0:3]
RF
SERVO DRIVER
IC1802
BA033FP
SERVO+B
IC1801
S-81233SGUP-T1
μ-COM+B
IC1501
D70760C
MD Mecha μ-COM
Q1501
DTA114EUA
XL1501
4. 91MHz
IC1503
TC7W34FU
IC1504
TC74HCT7007AFTP2
IC1505
TC7W34FU
LEVEL SHIFTER
ANALOG POWER SUPPLY
HIF[0:9]
HS[0:8]
M24Cxx
E²PROM
CN1801
From Main P.W.Board (CB101)
22 NC
21 PACK-IN
20 MDTRQ
19 DBSYO
18 DBSYI
17 DSCK
16 MDDT
15 HSDT
14 NC
13 MDRST
12 STBY
11 VDCONT
10 NC
9 GND (VDD5V)
8 VDD5V
7 LOAD 5V
6 SERVO 5V
5 GND (SERVO/LOAD)
4 AUDIO +B
3 ROUT
2 S.GND
1 LOUT

NOTE N. U. is Not Used Parts.

IC1101					
1	RF	30	NC	69	0V
2	3.3V	31	3.3V	70~72	PS
3	RF	32~37	PS	73	NC
4	0V	38	0V	74	PS
5, 6	1.8V	39~46	PS	75~77	NC
7	1.6V	47~59	NC	78	3.3V
8	1.3V	60	0V	79~81	NC
9	1.8V	61	NC	82	0V
10	0V	62	3.3V	83, 84	PS
11	PS	63	0V	85	NC
12	3.3V	64, 65	OSC	86	PS
13~16	0V	66	NC	87	3.3V
17	NC	67	0V	88	0V
18~29	PS	68	3.3V	89~100	PS

IC1102			
1~4	0.8V	33, 34	NC
5, 6	1.6V	35	PS
7	0.8V	36	1.6V
8~12	1.6V	37	0.8V
13, 14	3.3V	38, 39	1.6V
15~17	NC	40	RF
18~20	0V	41	NC
21	3.3V	42	3.3V
22, 23	0V	43	0V
24	3.3V	44	1V
25, 26	1.8V	45	1.6V
27, 28	1.3V	46	NC
29	1.6V	47	1.6V
30~32	PS	48	0V

IC1103			
1	1.6V	19	5V
2, 3	1.3V	20	3.3V
4	1.6V	21	0V
5, 6	1.3V	22	1.6V
7	1.6V	23, 24	1.3V
8	0V	25	1.6V
9	3.3V	26, 27	1.3V
10	5V	28	5V
11~18	2.4V		

IC1104	
1~5	PS
9~12	PS
13	3.3V
14~18	PS
22~25	PS
26	0V

IC1105	
1	5V
2	0V
3	NC
4	5V
5	NC
6, 7	0V
8	NC
9, 10	0V
11	5V
12~14	0V

IC1201	
1~3	PS
4	3.3V
5	0V
6	PS
7~9	3.3V
10, 11	0V
12	1.6V
13	3.3V
14	SIG
15	0V
16	SIG

IC1202		
1~3	4.3V	+SIG
4	0V	
5~7	4.3V	+SIG
8	0V	

IC1501					
1, 2	3.3V	26~36	PS	75	3.3V
3	2.9V	37	NC	76~78	NC
4, 5	0V	38~40	0V	79~81	0V
6	1.5V	41, 42	3.3V	82, 83	OSC
7	NC	43	0V	84	3.3V
8	3.3V	44	0V / 3.3V	85	NC
9~11	0V / PS	45~49	3.3V	86, 87	3.3V
12	0V	50~53	NC	88, 89	NC
13~16	NC	54	3.3V	90	3.3V
17	1.6V	55~59	NC	91	NC
18	3.3V	60, 61	PS	92	0V
19~21	0V	62~65	NC	93, 94	PS
22	PS	66	PS	95, 96	3.3V
23	3.3V	67~72	NC	97, 98	0V
24	0V / 3.3V	73	0V	99	3.3V
25	3.3V	74	NC	100	NC

IC1502	
1~4	0V
5, 6	3.3V
7	0V
8	3.3V

IC1503	
1, 2	PS
3	5V
4	0V
5	3.3V
6, 7	PS
8	3.3V

IC1504	
1~6	PS
7	0V
8	5V
9	3.3V
10	5V
11	3.3V
12	NC
13	0V
14	5V

IC1505	
1	5V
2	NC
3	PS
4	0V
5	PS
6	0V
7, 8	3.3V

IC1801	
1	0V
2	5V
3	3.3V

IC1802	
1	5V
2	0V
3	3.3V

Q1501	
E	3.3V
C	3.3V
B	0V

[Measuring Conditions]

• Power Supply Voltage	:	DC14.4V
• Measuring Meter	:	Digital Multi Voltmeter
• Measuring Point Reference	:	Between GND
• Measuring Conditions	:	Playing Test MD • MMD-212 (TEAC)

▬ ▪ ▬	MD signal Line
▬▬▬	Rch signal Line
▪ ▬ ▪	Lch signal Line
┈┈	Focus Error signal Line
┈ ┈	Trocking Error signal Line
· ·	Focus Error signal Line
·	Trock Error signal Line

NOTE:
1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. P = $\frac{1}{1,000,000}$

Description of IC Terminal (Only Difference)

NOTE : Refer to the Service Manual・TDA-7572R (Part No. 68E30104S01) for description not mentioned in this manual.

D784218GC : IC501

No	Symbol	I/O	Terminal Description
1	VD-CNT	I	Input terminal of request signal for MD mechanism power supply.
2	NC	—	No connect terminal.
≀			
4			
5	DBSYO	I	Input terminal of BUSY signal from MD mechanism µ-COM.
6	MDTRQ	I	Input terminal of request signal for MD mechanism communication.
7	PACK-IN	I	Input terminal of PACK IN detection signal.
8	NC	—	No connect terminal.
9	V_{DD}	—	Power supply terminal.
10	X2	—	Crystal connect terminal of System Clock (12.288MHz).
11	X1	—	
12	V_{SS}	—	GND terminal.
13	NC	—	No connect terminal.
14	V_{SS}	—	V_{SS} terminal.
15	RESET	I	Input terminal of System reset.
16	BAT-DET	I	Input terminal of BATT detection signal.
17	ACC-DET	I	Input terminal of ACC detection signal.
18	MD DT	I	Input terminal of status signal from MD mechanism.
19	BUS IN	I	Input terminal of Ai-NET BUS-DATA signal.
20	BUS OUT	O	Output terminal of Ai-NET BUS-DATA signal.
21	MD RST	O	Output terminal of reset signal to MD mechanism µ-COM.
22	STBY	O	Output terminal of compulsion stand by signal to MD mechanism.
23	AV_{DD}	—	Analog power terminal of A/D Converter.
24	$AV_{REF}0$	—	Standard voltage input terminal of A/D Converter.
25	GND	—	GND terminal.
26	NOSE-ON	I	Input terminal of NOSE signal.
27	GND	—	GND terminal.
28	AUDIO LEVEL	I	Input terminal of AUDIO LEVEL.
29	GND	—	GND terminal.
≀			
31			
32	AREA	I	Input terminal of AREA discriminate signal.
33	AV_{SS}	—	GND terminal of A/D Converter.
34	NC	—	No connect terminal.
35	DTS CE	O	Output terminal of Chip enable signal to DTS µ-COM.
36	$AV_{REF}1$	—	Standard voltage input terminal of D/A Converter.
37	DTS STS	I	Input terminal of system status signal from DTS µ-COM.
38	DTS CMD	O	Output terminal of serial data signal to DTS µ-COM.
39	DTS CLK	O	Output terminal of serial clock signal to DTS µ-COM.
40	DSCK	I/O	Input/Output terminal of clock signal to MD mechanism µ-COM.
41	GND	—	GND terminal.
42	DBSY	O	Output terminal of BUSY signal to MD mechanism µ-COM.
43	DTS MUTE	I	Input terminal of MUTE signal from DTS µ-COM.
44	LCD-RST	O	Output terminal of RESET signal to LCD DRIVER.
45	LCD-DO	I	Input terminal of serial data signal from LCD DRIVER (LC75883).
46	LCD-DI	O	Output terminal of chip enable signal to LCD DRIVER.
47	LCD-CLK	O	Output terminal of serial clock signal to LCD DRIVER,
48	LCD-CE	O	Output terminal of serial data signal to LCD DRIVER,
49	NC	—	No connect terminal.
50			
51	IN DIMMER	I	Input terminal of DIMMER control signal.
52	NC	—	No connect terminal.
53			
54	IN-INT	I	Input terminal of IN-INTERRUPT.
55	LIMIT SW2	I	Input terminal of loading NOSE limit signal.
56	LIMIT SW1		
57	DOOR SW	I	Input terminal of detection SW signal to CASSETTE door open/close.
58	MOTOR REV	O	Output terminal of motor control signal to loading NOSE open/close.
59	MOTOR FOR		
60	DOOR LED	O	Output terminal of LED control signal to DOOR.
61	NC	—	No connect terminal.
62			
63			
64	EV-DATA	O	Output terminal of serial data signal to Electric Volume.
65	EV-CLK	O	Output terminal of serial clock signal to Electric Volume.
66	BBE-1	O	Control output terminal of BBE (BBE).
67	BBE-2	O	Control output terminal of BBE (PROCESS).
68	BBE-3	O	Control output terminal of BBE (LO CONT).
69	NFP-1	O	Output terminal of control signal to NFP.
70	NFP-2		
71	MUTE	O	AUDIO MUTE signal output terminal.
72	V_{SS}	—	GND terminal.
73	MOTOR-CONT	O	Output terminal of unison motor power control signal.
74	NC	—	No connect terminal.
≀			
80			
81	V_{DD}	—	Power supply terminal.
82	PWR IC-ON	O	Output terminal of stand-by control signal to Power IC.
83	NOSE-PWR	O	Output terminal of power control signal to LCD DRIVER.
84	CFL ON	O	Output terminal of power control signal to LCD back light.

572R
ion not

No	Symbol	I/O	Terminal Description
39	DTS CLK	O	Output terminal of serial clock signal to DTS μ-COM.
40	DSCK	I/O	Input/Output terminal of clock signal to MD mechanism μ-COM.
41	GND	—	GND terminal.
42	DBSY	O	Output terminal of BUSY signal to MD mechanism μ-COM.
43	DTS MUTE	I	Input terminal of MUTE signal from DTS μ-COM.
44	LCD-RST	O	Output terminal of RESET signal to LCD DRIVER.
45	LCD-DO	I	Input terminal of serial data signal from LCD DRIVER (LC75883).
46	LCD-DI	O	Output terminal of chip enable signal to LCD DRIVER.
47	LCD-CLK	O	Output terminal of serial clock signal to LCD DRIVER,
48	LCD-CE	O	Output terminal of serial data signal to LCD DRIVER,
49	NC	—	No connect terminal.
50			
51	IN DIMMER	I	Input terminal of DIMMER control signal.
52	NC	—	No connect terminal.
53			
54	IN-INT	I	Input terminal of IN-INTERRUPT.
55	LIMIT SW2	I	Input terminal of loading NOSE limit signal.
56	LIMIT SW1		
57	DOOR SW	I	Input terminal of detection SW signal to CASSETTE door open/close.
58	MOTOR REV	O	Output terminal of motor control signal to loading NOSE open/close.
59	MOTOR FOR		
60	DOOR LED	O	Output terminal of LED control signal to DOOR.
61	NC	—	No connect terminal.
62			
63			
64	EV-DATA	O	Output terminal of serial data signal to Electric Volume.
65	EV-CLK	O	Output terminal of serial clock signal to Electric Volume.
66	BBE-1	O	Control output terminal of BBE (BBE).
67	BBE-2	O	Control output terminal of BBE (PROCESS).
68	BBE-3	O	Control output terminal of BBE (LO CONT).
69	NFP-1	O	Output terminal of control signal to NFP.
70	NFP-2		
71	MUTE	O	AUDIO MUTE signal output terminal.
72	V_{SS}	—	GND terminal.
73	MOTOR-CONT	O	Output terminal of unison motor power control signal.
74	NC	—	No connect terminal.
~			
80			
81	V_{DD}	—	Power supply terminal.
82	PWR IC-ON	O	Output terminal of stand-by control signal to Power IC.
83	NOSE-PWR	O	Output terminal of power control signal to LCD DRIVER.
84	CFL ON	O	Output terminal of power control signal to LCD back light.

No	Symbol	I/O	Terminal Description
85	PWR-CONT	O	Output terminal of power control signal to AUDIO and Key lighting.
86	NC (PULL UP)	—	Pull up terminal.
87	DIMMER-CONT	O	Output terminal of control signal (PWM) to DIMMER.
88	BUZZER	O	Output terminal of gide tone buzzer signal.
89	NC	—	No connect terminal.
90	V-CONT	O	Output terminal of MD power supply control signal.
91	REMOCON	I	Remote Control data input terminal.
92	NC	—	No connect terminal.
93			
94	V_{PP}	—	GND terminal.
95	NC	—	No connect terminal.
~			
99			
100	HS DT	O	Output terminal of command data signal to MD mechanism.

Electrical Parts List

Capacitor : μ F=microfarads,pF=picofarads

Abbreviations

RES.= Resistor
C.F.= Carbon Film
M.F.= Metal Film
M.O.= Metal OxideFilm
M.P.= Metal Plate
TR. = Transistor
TRANS.= Transformer
CP. = Chip

CAP.= Capacitor
ELY.= Electrolytic
CER.= Ceramic
MYL.= Mylar
TAN.= Tantalum
POLY.= Polystyrol
PP. = Polypropylene
PLT.= Polyethylene
PF. = Polyester Film

Symbol No.	Part No.	Description
Main P.W.Board		
IC's		
IC001	51T15731W10	TC7S66F-TE85L -CP
IC002	51T93332F01	IC,NJM2903M-TE3 -SE2
IC004	51T93333F01	NJM2904M-TE3 -SE2
IC005	51T15132Y02	SAA6588T -SE9
IC101	51T15510W01	IC ,MC34063AML -SPD
IC180	51T90149F03	IC,M5218AFP-TE3-SE02
IC202	51T15404Y01	TDA7461D -SEC
IC203	51T15468Y02	NJM2150AV-TE1 -SE2
IC206	51T15456Y01	TC74HC4066AFT-EL-SE5
IC301	51T15021Y01	TDA7386 -ZS
IC330	51T15456Y01	TC74HC4066AFT-EL-SE5
IC331	51T15456Y01	TC74HC4066AFT-EL-SE5
IC332	51T90149F03	IC,M5218AFP-TE3-SE02
IC333	51T90149F03	IC,M5218AFP-TE3-SE02
IC334	51T90149F03	IC,M5218AFP-TE3-SE02
IC501	51T25523Y02	IC,D784218GC-020 -QT
IC502	51T15161Y02	IC,MB89689PF-G110-QT
IC503	51T25160Y01	M24C04-WMN6T -SE2
IC801	51T25283Y01	TDA3616T -SE9
IC802	51T90149F03	IC,M5218AFP-TE3-SE02
IC804	51T93332F01	IC,NJM2903M-TE3 -SE2
IC810	51T25448Y01	BA6219BFP-Y-E2 -SE9
Transistors		
Q002	48T62967F09	TR,DTC114TKA-T146-CP
Q003	48T45594W12	TR ,XN1A312 -TX-CP
Q005	48T45594W08	TR ,XN1212 -TX-CP
Q010	48T45594W16	TR,XN1A311-TX -CP
Q104	48T15511W02	CP.2SB1261-TE2 -E5
Q105	48T45594W12	TR ,XN1A312 -TX-CP
Q202	48T45594W08	TR ,XN1212 -TX-CP
Q332	48T25317Y01	TR,XN0F256-TX -CP
Q333	48T25317Y01	TR,XN0F256-TX -CP
Q501	48T64221F11	TR,UN211L-TX -CP
Q502	48T64222F02	TR ,UN2212 22-22 -TX
Q601	48T64221F11	TR,UN211L-TX -CP
Q602	48T64222F02	TR ,UN2212 22-22 -TX
Q603	48T64222F02	TR ,UN2212 22-22 -TX
Q604	48T64222F01	TR ,UN2211 10-10 -TX
Q605	48T64222F01	TR ,UN2211 10-10 -TX
Q606	48T64222F01	TR ,UN2211 10-10 -TX
Q607	48T52437F05	TR ,2SB709A-S /TX-CP
Q801	48T84366F03	TR,2SB1243-Q-TV2 -RD
Q802	48T64222F11	TR,UN221F-TX -CP
Q803	48T45594W12	TR ,XN1A312 -TX-CP
Q804	48T45594W12	TR ,XN1A312 -TX-CP
Q806	48T93828F04	TR,2SD1994A-S-TA -RD
Q807	48T93828F04	TR,2SD1994A-S-TA -RD
Q808	48T45594W12	TR ,XN1A312 -TX-CP
Q809	48T69176F02	TR ,2SC3421-Y
Q810	48T52438F04	TR ,2SD601A-S /TX-CP
Q812	48T64221F13	TR,UN211H-TX -CP
Q813	48T52437F05	TR ,2SB709A-S /TX-CP
Q814	48T64222F01	TR ,UN2211 10-10 -TX
Q816	48T84366F03	TR,2SB1243-Q-TV2 -RD
Q817	48T64221F13	TR,UN211H-TX -CP
Q819	48T64222F12	TR,UN221L-TX -CP
Q820	48T64222F02	TR ,UN2212 22-22 -TX
Q821	48T52437F05	TR ,2SB709A-S /TX-CP
Q822	48T52438F04	TR ,2SD601A-S /TX-CP
Q823	48T64221F02	TR ,UN2112 22-22 -TX
Q825	48T45594W12	TR ,XN1A312 -TX-CP
Q826	48T64222F02	TR ,UN2212 22-22 -TX
Q828	48T45594W12	TR ,XN1A312 -TX-CP
Q830	48T45594W08	TR ,XN1212 -TX-CP
Q840	48T93828F04	TR,2SD1994A-S-TA -RD
Q870	48T92368F04	TR,2SD1760 R -E5
Q871	48T52438F04	TR ,2SD601A-S /TX-CP
Q872	48T93828F04	TR,2SD1994A-S-TA -RD
Diodes		
D001	48T15437Y01	DIO,HSM123-TL -CP
D101	48T85269W02	DIO,SHT SB040 -H5
D241	48T75404W01	DIO,1SS353-TE17 -CP
D332	48T25651W01	DIO,CP MA152WA
D333	48T25651W01	DIO,CP MA152WA
D501	48T75404W01	DIO,1SS353-TE17 -CP

Symbol No.	Part No.	Description
D601	48T25651W02	DIO,MA152WK-TX -CP
D602	48T25651W02	DIO,MA152WK-TX -CP
D801	48T68580F03	DIO,SI DSA3A4-F5
D802	48T75404W01	DIO,1SS353-TE17 -CP
D803	48T15658Y02	DIO,1A4 -R5
D804	48T85357W01	DIO,1PS226 -CP
D806	48T68828F11	DIO,1SS133 -RH
D807	48T25651W01	DIO,CP MA152WA
D808	48T25651W02	DIO,MA152WK-TX -CP
D810	48T15658Y02	DIO,1A4 -R5
D811	48T81063F01	DIO,CP.MA159 / TX-CP
ZD241	48T25801W08	DIO,ZEN.HZS 4BLL -R5
ZD801	48T25766W14	DIO,ZEN.HZS 7B2L -R5
ZD802	48T25766W29	DIO,ZEN.HZS11A3L -R5
ZD803	48T25766W24	DIO,ZEN.HZS 9C1L -R5
ZD804	48T25766W03	DIO,ZEN.HZS 6A3L -R5
ZD805	48T25766W39	DIO,ZEN.HZS12B1L -R5
ZD806	48T25801W08	DIO,ZEN.HZS 4BLL -R5
ZD871	48T25766W04	DIO,ZEN.HZS 6B1L -R5
Coils		
L001	24T65172W17	IND,LEM4532 4R7K -E2
L002	24T16403W29	COI,IND.15R-M -CP
L010	24T16403W15	COI,IND.1R0-M K -CP
L011	24T16403W15	COI,IND.1R0-M K -CP
L012	24T16403W07	COI,IND.R22-M K -CP
L013	24T16403W15	COI,IND.1R0-M K -CP
L101	24T16271W13	COIL,RCR875D-221K
L801	25T25663Y01	CHOKE,LAT1608-105-DB
VT001	24T15267Y01	COIL,7TL -DB
Crystals		
XL001	91T85169W18	XTL,HC-49 4.332M -R5
XL501	91T95084W02	XTL,CS20 12.288M -E9
XL502	91T85169W44	XTL,HC-49 7.3728M-R5
Switches		
SW331	40T15452Y01	SW,SLIDE SLD-62-724X (Ai-NET NORM/(EQ/DIV)
SW332	40T45282W02	SW,SLIDE SLD-42-508X (Ai-NET NORM/(EQ/DIV)

Symbol No.	Part No.	Description
Buzzer		
BZ601	50T85541W01	BUZZER,CD11PA-XZ -H5
Filter		
CF001	91T75257W02	LPF,LPF11830KH-3C-DB
Surge Protector		
DSP001	48T70875F02	PTT,DSP-201M
Capacitors		
C002	08T15399W01	CAP,CER.223K-B1H -CP
C003	08S65128F67	CAP,CER.682K-B1H -CP
C004	08S82122F53	CAP,CER.471J-CH1H-CP
C007	08T15399W01	CAP,CER.223K-B1H -CP
C008	08S35374W01	CAP,CER 104K-B1E-CP
C009	08S82122F37	CAP,CER.101J-CH1H-CP
C011	08T15399W01	CAP,CER.223K-B1H -CP
C012	08T15399W01	CAP,CER.223K-B1H -CP
C016	08S65128F61	CAP,CER.222K-B1H -CP
C018	08S45677W48	CAP,CER.331J-CH1H-CP
C019	08S45677W36	CAP,CER.101J-CH1H-CP
C020	08S65128F69	CAP,CER.103K-B1H -CP
C025	08S82122F24	CAP,CER.30RJ-CH1H-CP
C026	08S82122F23	CAP,CER.27RJ-CH1H-CP
C028	08S65128F61	CAP,CER.222K-B1H -CP
C030	08S45677W54	CAP,CER 561J-CH1H-CP
C100	08S82122F61	CAP,CER.102J-CH1H-CP
C101	08T15399W01	CAP,CER.223K-B1H -CP
C102	08S45677W38	CAP,CER 121J-CH1H-CP
C103	08T15399W01	CAP,CER.223K-B1H -CP
C104	08T15399W01	CAP,CER.223K-B1H -CP
C105	08T15399W01	CAP,CER.223K-B1H -CP
C108	08S65128F69	CAP,CER.103K-B1H -CP
C109	08S82122F61	CAP,CER.102J-CH1H-CP
C180	08S45677W32	CAP,CER.68RJ-CH1H-CP
C181	08S45677W32	CAP,CER.68RJ-CH1H-CP
C182	08S45677W32	CAP,CER.68RJ-CH1H-CP
C183	08S45677W32	CAP,CER.68RJ-CH1H-CP
C205	08S35374W01	CAP,CER 104K-B1E-CP
C206	08S82122F61	CAP,CER.102J-CH1H-CP
C207	08S35374W01	CAP,CER 104K-B1E-CP
C208	08T15399W04	CAP,CER.273K-B1H -CP

Symbol No.	Part No.	Description
C209	08S65128F65	CAP,CER.472K-B1H -CP
C210	08S82122F37	CAP,CER.101J-CH1H-CP
C212	08S35374W01	CAP,CER 104K-B1E-CP
C213	08S35374W01	CAP,CER 104K-B1E-CP
C214	08S35374W01	CAP,CER 104K-B1E-CP
C231	08T55390W11	CAP,PF 332J-1H -R5
C232	08T55390W11	CAP,PF 332J-1H -R5
C233	08T55390W23	CAP,TF 333J-1H -R5
C234	08T55390W23	CAP,TF 333J-1H -R5
C241	08S82122F33	CAP,CER.68RJ-CH1H-CP
C305	08S82122F61	CAP,CER.102J-CH1H-CP
C308	08S82122F61	CAP,CER.102J-CH1H-CP
C337	08S45677W32	CAP,CER.68RJ-CH1H-CP
C338	08S45677W32	CAP,CER.68RJ-CH1H-CP
C339	08S45677W32	CAP,CER.68RJ-CH1H-CP
C340	08S45677W32	CAP,CER.68RJ-CH1H-CP
C345	08S45677W25	CAP,CER 36RJ-CH1H-CP
C346	08S45677W25	CAP,CER 36RJ-CH1H-CP
C347	08S45677W25	CAP,CER 36RJ-CH1H-CP
C348	08S45677W25	CAP,CER 36RJ-CH1H-CP
C353	08S45677W25	CAP,CER 36RJ-CH1H-CP
C354	08S45677W25	CAP,CER 36RJ-CH1H-CP
C355	08S45677W25	CAP,CER 36RJ-CH1H-CP
C356	08S45677W25	CAP,CER 36RJ-CH1H-CP
C501	08S82122F15	CAP,CER.12RJ-CH1H-CP
C502	08S82122F17	CAP,CER.15RJ-CH1H-CP
C503	08T15399W01	CAP,CER.223K-B1H -CP
C504	08S82122F19	CAP,CER.18RJ-CH1H-CP
C505	08S82122F19	CAP,CER.18RJ-CH1H-CP
C506	08T15399W01	CAP,CER.223K-B1H -CP
C507	08S65128F69	CAP,CER.103K-B1H -CP
C508	08T15399W01	CAP,CER.223K-B1H -CP
C601	08T15399W01	CAP,CER.223K-B1H -CP
C602	08S35374W01	CAP,CER 104K-B1E-CP
C603	08S65128F61	CAP,CER.222K-B1H -CP
C604	08S45677W36	CAP,CER.101J-CH1H-CP
C605	08T15399W04	CAP,CER.273K-B1H -CP
C607	08T15399W04	CAP,CER.273K-B1H -CP
C802	08T15399W01	CAP,CER.223K-B1H -CP
C804	08T55487W02	CAP,CER.224K-B1C -CP
C807	08S82122F61	CAP,CER.102J-CH1H-CP
C808	08S45677W36	CAP,CER.101J-CH1H-CP
C809	08S45677W22	CAP,CER.27RJ-CH1H-CP
C830	08T15399W01	CAP,CER.223K-B1H -CP
C831	08T55390W34	CAP,TF 274J-1H -R5
C870	08T15399W01	CAP,CER.223K-B1H -CP
C871	08T95466W01	CAP,CER 222K-B2J -CP
C874	08T95466W01	CAP,CER 222K-B2J -CP
E001	23S75372W04	CAP,ELY 10R-1C -R2

Symbol No.	Part No.	Description
E002	23S75372W15	CAP,ELY 1R0-1H -R2
E003	23S75372W12	CAP,ELY R33-1H -R2
E006	23S75372W17	CAP,ELY 3R3-1H -R2
E007	23S75372W04	CAP,ELY 10R-1C -R2
E009	23S75372W04	CAP,ELY 10R-1C -R2
E010	23S75372W16	CAP,ELY 2R2-1H -R2
E020	23S75372W04	CAP,ELY 10R-1C -R2
E101	23S75372W08	CAP,ELY 101-1C -H2
E102	23T55378W03	CAP,KMG 471-1A -R2
E180	23S75372W04	CAP,ELY 10R-1C -R2
E181	23S75372W04	CAP,ELY 10R-1C -R2
E182	23S75372W04	CAP,ELY 10R-1C -R2
E183	23S75372W04	CAP,ELY 10R-1C -R2
E201	23S75372W04	CAP,ELY 10R-1C -R2
E207	23S75372W04	CAP,ELY 10R-1C -R2
E208	23S75372W09	CAP,ELY 4R7-1V -R2
E209	23S75372W17	CAP,ELY 3R3-1H -R2
E210	23S75372W17	CAP,ELY 3R3-1H -R2
E213	23S75372W17	CAP,ELY 3R3-1H -R2
E214	23S75372W17	CAP,ELY 3R3-1H -R2
E215	23S75372W15	CAP,ELY 1R0-1H -R2
E216	23S75372W05	CAP,ELY 22R-1C -R2
E231	23S75372W04	CAP,ELY 10R-1C -R2
E232	23S75372W05	CAP,ELY 22R-1C -R2
E234	23S75372W04	CAP,ELY 10R-1C -R2
E235	23S75372W04	CAP,ELY 10R-1C -R2
E241	23S75372W04	CAP,ELY 10R-1C -R2
E242	23S75372W04	CAP,ELY 10R-1C -R2
E243	23S75372W16	CAP,ELY 2R2-1H -R2
E261	23S75372W04	CAP,ELY 10R-1C -R2
E301	23T95115W01	CAP,AD R33-1H -R2
E302	23T95115W01	CAP,AD R33-1H -R2
E303	23T95115W01	CAP,AD R33-1H -R2
E304	23T95115W01	CAP,AD R33-1H -R2
E305	23T55378W12	CAP,KMG.1R0-1H -R2
E306	23T95115W02	CAP,AD 1R0-1H -R2
E307	23T55378W06	CAP,KMG 47R-1V -R2
E330	23S75372W04	CAP,ELY 10R-1C -R2
E331	23S75372W04	CAP,ELY 10R-1C -R2
E333	23S75372W16	CAP,ELY 2R2-1H -R2
E334	23S75372W16	CAP,ELY 2R2-1H -R2
E335	23S75372W16	CAP,ELY 2R2-1H -R2
E336	23S75372W16	CAP,ELY 2R2-1H -R2
E337	23S75372W04	CAP,ELY 10R-1C -R2
E338	23S75372W04	CAP,ELY 10R-1C -R2
E339	23S75372W04	CAP,ELY 10R-1C -R2
E341	23S75372W04	CAP,ELY 10R-1C -R2
E342	23S75372W04	CAP,ELY 10R-1C -R2
E343	23S75372W04	CAP,ELY 10R-1C -R2

Symbol No.	Part No.	Description
E345	23S75372W16	CAP,ELY 2R2-1H -R2
E346	23S75372W16	CAP,ELY 2R2-1H -R2
E347	23S75372W16	CAP,ELY 2R2-1H -R2
E348	23S75372W16	CAP,ELY 2R2-1H -R2
E501	23S75372W03	CAP,ELY 221-1A -H2
E502	23S75372W03	CAP,ELY 221-1A -H2
E503	23S75372W05	CAP,ELY 22R-1C -R2
E504	23S65134W32	CAP,ELY 22R-1C(5)-E3
E601	23S75372W04	CAP,ELY 10R-1C -R2
E801	23T75346W03	CAP,X-PRO 332-1C +
E802	23S75372W10	CAP,ELY R10-1H -R2
E803	23S75372W13	CAP,ELY R47-1H -R2
E806	23S65134W72	CAP,ELY 3R3-1H(4)-E2
E807	23S75372W07	CAP,ELY 47R-1C -R2
E808	23S75372W05	CAP,ELY 22R-1C -R2
E809	23S75372W03	CAP,ELY 221-1A -H2
E811	23S75372W05	CAP,ELY 22R-1C -R2
E812	23S75372W07	CAP,ELY 47R-1C -R2
E813	23S75372W07	CAP,ELY 47R-1C -R2
E814	23S75372W07	CAP,ELY 47R-1C -R2
E815	23S75372W07	CAP,ELY 47R-1C -R2
E817	23S75372W05	CAP,ELY 22R-1C -R2
E818	23S75372W04	CAP,ELY 10R-1C -R2
E821	23S75372W04	CAP,ELY 10R-1C -R2
E822	23S75372W04	CAP,ELY 10R-1C -R2
E823	23S65134W31	CAP,ELY 10R-1C(4)-E2
E870	23S75372W03	CAP,ELY 221-1A -H2
E871	23S75372W03	CAP,ELY 221-1A -H2
E872	23S75372W04	CAP,ELY 10R-1C -R2
Resistors		
L501	06T75434W26	RES,RK JUMPER 1/4-CP
L502	06T75432W50	RES,RK JUMPER1/10-CP
R001	06S70072F05	RES,CP .10R-J-1/4-CP
R003	06T75431W89	RES,RK 183J 1/10 -CP
R004	06T75431W93	RES,RK 273J 1/10 -CP
R005	06T75432W40	RES,RK 225J 1/10 -CP
R006	06T75431W59	RES,RK 102J 1/10 -CP
R007	06T75431W59	RES,RK 102J 1/10 -CP
R008	06T75431W59	RES,RK 102J 1/10 -CP
R009	06T75431W83	RES,RK 103J 1/10 -CP
R010	06T75432W16	RES,RK 224J 1/10 -CP
R011	06T75432W08	RES,RK 104J 1/10 -CP
R012	06T75431W91	RES,RK 223J 1/10 -CP
R013	06T75431W77	RES,RK 562J 1/10 -CP
R014	06T75431W91	RES,RK 223J 1/10 -CP
R015	06T75431W79	RES,RK 682J 1/10 -CP

Symbol No.	Part No.	Description
R016	06T75431W74	RES,RK 432J 1/10 -CP
R017	06T75432W10	RES,RK 124J 1/10 -CP
R018	06T75431W99	RES,RK 473J 1/10 -CP
R019	06T75431W99	RES,RK 473J 1/10 -CP
R021	06T25277Y90	RES,RK 243J 1/16 -CP
R022	06T25277Y89	RES,RK 223J 1/16 -CP
R023	06T75431W83	RES,RK 103J 1/10 -CP
R024	06T25277Y57	RES,RK 102J 1/16 -CP
R025	06T75432W16	RES,RK 224J 1/10 -CP
R026	06T75431W91	RES,RK 223J 1/10 -CP
R028	06T75431W53	RES,RK 561J 1/10 -CP
R031	06T75431W91	RES,RK 223J 1/10 -CP
R032	06T75432W50	RES,RK JUMPER1/10-CP
R033	06T75432W50	RES,RK JUMPER1/10-CP
R034	06T25277Y57	RES,RK 102J 1/16 -CP
R035	06T75432W50	RES,RK JUMPER1/10-CP
R036	06T25277Y43	RES,RK 271J 1/16 -CP
R037	06T25277Y43	RES,RK 271J 1/16 -CP
R038	06T25277Y57	RES,RK 102J 1/16 -CP
R040	06T75431W67	RES,RK 222J 1/10 -CP
R041	06T25278Y22	RES,RK 474J 1/16 -CP
R042	06T75431W59	RES,RK 102J 1/10 -CP
R101	06T75432W50	RES,RK JUMPER1/10-CP
R105	06T75434W26	RES,RK JUMPER 1/4-CP
R108	06T75433W89	RES,RK 473J 1/4 -CP
R115	06T75432W50	RES,RK JUMPER1/10-CP
R117	06T75432W50	RES,RK JUMPER1/10-CP
R119	06T75434W26	RES,RK JUMPER 1/4-CP
R143	06T25279Y04	RES,RK JUMPER1/16-CP
R144	06T25279Y04	RES,RK JUMPER1/16-CP
R170	06T75433W25	RES,RK 101J 1/4 -CP
R171	06T75433W43	RES,RK 561J 1/4 -CP
R172	06T75433W43	RES,RK 561J 1/4 -CP
R173	06S15593Y73	RES,RK 103F 1/10 -CP
R174	06S15593Y84	RES,RK 303F 1/10 -CP
R180	06S15593Y75	RES,RK 123F 1/10 -CP
R181	06S15593Y77	RES,RK 153F 1/10 -CP
R182	06S15593Y77	RES,RK 153F 1/10 -CP
R183	06S15593Y75	RES,RK 123F 1/10 -CP
R184	06S15593Y75	RES,RK 123F 1/10 -CP
R185	06S15593Y77	RES,RK 153F 1/10 -CP
R186	06S15593Y77	RES,RK 153F 1/10 -CP
R187	06S15593Y75	RES,RK 123F 1/10 -CP
R201	06T25279Y04	RES,RK JUMPER1/16-CP
R202	06T25279Y04	RES,RK JUMPER1/16-CP
R215	06T75431W81	RES,RK 822J 1/10 -CP
R218	06T75431W97	RES,RK 393J 1/10 -CP
R219	06T75431W97	RES,RK 393J 1/10 -CP
R222	06T25278Y22	RES,RK 474J 1/16 -CP

Symbol No.	Part No.	Description
R223	06T75433W49	RES,RK 102J 1/4 -CP
R224	06T75432W02	RES,RK 563J 1/10 -CP
R226	06T75432W02	RES,RK 563J 1/10 -CP
R227	06T25277Y57	RES,RK 102J 1/16 -CP
R228	06T25277Y57	RES,RK 102J 1/16 -CP
R231	06T75431W90	RES,RK 203J 1/10 -CP
R232	06T75431W90	RES,RK 203J 1/10 -CP
R233	06T75431W90	RES,RK 203J 1/10 -CP
R234	06T75431W90	RES,RK 203J 1/10 -CP
R235	06T75431W83	RES,RK 103J 1/10 -CP
R236	06T75431W83	RES,RK 103J 1/10 -CP
R237	06T75431W83	RES,RK 103J 1/10 -CP
R241	06T75432W08	RES,RK 104J 1/10 -CP
R242	06T75432W08	RES,RK 104J 1/10 -CP
R243	06T25277Y97	RES,RK 473J 1/16 -CP
R244	06T75431W69	RES,RK 272J 1/10 -CP
R245	06T75431W85	RES,RK 123J 1/10 -CP
R246	06T25279Y04	RES,RK JUMPER1/16-CP
R247	06T75431W99	RES,RK 473J 1/10 -CP
R261	06T25277Y97	RES,RK 473J 1/16 -CP
R262	06T25277Y97	RES,RK 473J 1/16 -CP
R301	06T75431W83	RES,RK 103J 1/10 -CP
R303	06T25279Y04	RES,RK JUMPER1/16-CP
R305	06T25279Y04	RES,RK JUMPER1/16-CP
R323	06T75431W69	RES,RK 272J 1/10 -CP
R324	06T75431W69	RES,RK 272J 1/10 -CP
R325	06T75431W69	RES,RK 272J 1/10 -CP
R326	06T75431W69	RES,RK 272J 1/10 -CP
R337	06S15593Y75	RES,RK 123F 1/10 -CP
R338	06S15593Y75	RES,RK 123F 1/10 -CP
R339	06S15593Y75	RES,RK 123F 1/10 -CP
R340	06S15593Y75	RES,RK 123F 1/10 -CP
R341	06S15593Y81	RES,RK 223F 1/10 -CP
R342	06S15593Y81	RES,RK 223F 1/10 -CP
R343	06S15593Y81	RES,RK 223F 1/10 -CP
R344	06S15593Y81	RES,RK 223F 1/10 -CP
R345	06S15593Y81	RES,RK 223F 1/10 -CP
R346	06S15593Y81	RES,RK 223F 1/10 -CP
R347	06S15593Y81	RES,RK 223F 1/10 -CP
R348	06S15593Y81	RES,RK 223F 1/10 -CP
R349	06S15593Y81	RES,RK 223F 1/10 -CP
R350	06S15593Y81	RES,RK 223F 1/10 -CP
R351	06S15593Y81	RES,RK 223F 1/10 -CP
R352	06S15593Y81	RES,RK 223F 1/10 -CP
R353	06S15593Y81	RES,RK 223F 1/10 -CP
R354	06S15593Y81	RES,RK 223F 1/10 -CP
R355	06S15593Y81	RES,RK 223F 1/10 -CP
R356	06S15593Y81	RES,RK 223F 1/10 -CP
R357	06T25277Y41	RES,RK 221J 1/16 -CP

Symbol No.	Part No.	Description
R358	06T25277Y41	RES,RK 221J 1/16 -CP
R359	06T25277Y89	RES,RK 223J 1/16 -CP
R360	06T25277Y89	RES,RK 223J 1/16 -CP
R361	06T25277Y33	RES,RK 101J 1/16 -CP
R362	06T25277Y33	RES,RK 101J 1/16 -CP
R365	06T25277Y41	RES,RK 221J 1/16 -CP
R366	06T25277Y41	RES,RK 221J 1/16 -CP
R367	06T25277Y89	RES,RK 223J 1/16 -CP
R368	06T25277Y89	RES,RK 223J 1/16 -CP
R369	06T25277Y33	RES,RK 101J 1/16 -CP
R370	06T25277Y33	RES,RK 101J 1/16 -CP
R381	06T25277Y81	RES,RK 103J 1/16 -CP
R382	06T75431W83	RES,RK 103J 1/10 -CP
R387	06T25277Y41	RES,RK 221J 1/16 -CP
R388	06T25277Y41	RES,RK 221J 1/16 -CP
R389	06T25277Y41	RES,RK 221J 1/16 -CP
R390	06T25277Y41	RES,RK 221J 1/16 -CP
R391	06S15593Y79	RES,RK 183F 1/10 -CP
R392	06S15593Y79	RES,RK 183F 1/10 -CP
R393	06S15593Y79	RES,RK 183F 1/10 -CP
R394	06S15593Y79	RES,RK 183F 1/10 -CP
R500	06T75431W59	RES,RK 102J 1/10 -CP
R501	06T75431W85	RES,RK 123J 1/10 -CP
R503	06T75431W59	RES,RK 102J 1/10 -CP
R504	06T75431W59	RES,RK 102J 1/10 -CP
R505	06T75431W59	RES,RK 102J 1/10 -CP
R506	06T75431W59	RES,RK 102J 1/10 -CP
R507	06T75431W59	RES,RK 102J 1/10 -CP
R511	06T75431W59	RES,RK 102J 1/10 -CP
R513	06T25277Y81	RES,RK 103J 1/16 -CP
R515	06T75431W59	RES,RK 102J 1/10 -CP
R516	06T75431W59	RES,RK 102J 1/10 -CP
R517	06T75431W59	RES,RK 102J 1/10 -CP
R518	06T25277Y89	RES,RK 223J 1/16 -CP
R520	06T25278Y06	RES,RK 104J 1/16 -CP
R521	06T75432W50	RES,RK JUMPER1/10-CP
R524	06T25279Y04	RES,RK JUMPER1/16-CP
R525	06T25278Y22	RES,RK 474J 1/16 -CP
R528	06T75431W59	RES,RK 102J 1/10 -CP
R529	06T75431W99	RES,RK 473J 1/10 -CP
R530	06T75431W99	RES,RK 473J 1/10 -CP
R531	06T75434W14	RES,RK 474J 1/4 -CP
R533	06T75431W59	RES,RK 102J 1/10 -CP
R534	06T75431W59	RES,RK 102J 1/10 -CP
R535	06T75431W59	RES,RK 102J 1/10 -CP
R536	06T75431W83	RES,RK 103J 1/10 -CP
R537	06T75431W83	RES,RK 103J 1/10 -CP
R539	06T25277Y97	RES,RK 473J 1/16 -CP
R541	06T75431W59	RES,RK 102J 1/10 -CP

Symbol No.	Part No.	Description
R542	06T75431W79	RES,RK 682J 1/10 -CP
R543	06T75431W83	RES,RK 103J 1/10 -CP
R544	06T75431W91	RES,RK 223J 1/10 -CP
R549	06T75431W59	RES,RK 102J 1/10 -CP
R550	06T75431W91	RES,RK 223J 1/10 -CP
R551	06T75431W75	RES,RK 472J 1/10 -CP
R552	06T25277Y57	RES,RK 102J 1/16 -CP
R553	06T75431W91	RES,RK 223J 1/10 -CP
R554	06T75431W83	RES,RK 103J 1/10 -CP
R555	06T75431W83	RES,RK 103J 1/10 -CP
R559	06T25277Y81	RES,RK 103J 1/16 -CP
R560	06T25277Y89	RES,RK 223J 1/16 -CP
R561	06T75433W33	RES,RK 221J 1/4 -CP
R570	06T75431W91	RES,RK 223J 1/10 -CP
R580	06T75432W08	RES,RK 104J 1/10 -CP
R601	06T75431W83	RES,RK 103J 1/10 -CP
R602	06T75431W99	RES,RK 473J 1/10 -CP
R603	06T75433W73	RES,RK 103J 1/4 -CP
R604	06T25277Y81	RES,RK 103J 1/16 -CP
R605	06T75433W49	RES,RK 102J 1/4 -CP
R606	06T75431W83	RES,RK 103J 1/10 -CP
R607	06T25277Y33	RES,RK 101J 1/16 -CP
R608	06T25277Y65	RES,RK 222J 1/16 -CP
R609	06T25277Y69	RES,RK 332J 1/16 -CP
R610	06T25277Y81	RES,RK 103J 1/16 -CP
R611	06T75431W91	RES,RK 223J 1/10 -CP
R612	06T25277Y57	RES,RK 102J 1/16 -CP
R613	06T75433W13	RES,RK 33RJ 1/4 -CP
R614	06T75433W13	RES,RK 33RJ 1/4 -CP
R615	06T75433W13	RES,RK 33RJ 1/4 -CP
R616	06T75433W13	RES,RK 33RJ 1/4 -CP
R617	06T75433W13	RES,RK 33RJ 1/4 -CP
R618	06T75433W13	RES,RK 33RJ 1/4 -CP
R619	06T25277Y97	RES,RK 473J 1/16 -CP
R620	06T25277Y97	RES,RK 473J 1/16 -CP
R621	06T75431W91	RES,RK 223J 1/10 -CP
R622	06T75431W91	RES,RK 223J 1/10 -CP
R623	06T75431W91	RES,RK 223J 1/10 -CP
R633	06T25277Y57	RES,RK 102J 1/16 -CP
R634	06T25277Y57	RES,RK 102J 1/16 -CP
R635	06T25277Y57	RES,RK 102J 1/16 -CP
R636	06T25277Y57	RES,RK 102J 1/16 -CP
R637	06T25277Y57	RES,RK 102J 1/16 -CP
R638	06T25277Y57	RES,RK 102J 1/16 -CP
R801	06T75433W82	RES,RK 243J 1/4 -CP
R802	06T75433W55	RES,RK 182J 1/4 -CP
R803	06T75433W55	RES,RK 182J 1/4 -CP
R804	06T75433W55	RES,RK 182J 1/4 -CP
R805	06T75433W55	RES,RK 182J 1/4 -CP

Symbol No.	Part No.	Description
R806	06T75433W65	RES,RK 472J 1/4 -CP
R807	06T75433W65	RES,RK 472J 1/4 -CP
R808	06T25277Y57	RES,RK 102J 1/16 -CP
R809	06T75433W73	RES,RK 103J 1/4 -CP
R811	06T75431W59	RES,RK 102J 1/10 -CP
R813	06T75433W33	RES,RK 221J 1/4 -CP
R814	06T75434W23	RES,RK 5R6J 1/4 -CP
R815	06T75433W39	RES,RK 391J 1/4 -CP
R817	06T75434W22	RES,RK 2R2J 1/4 -CP
R818	06T75434W22	RES,RK 2R2J 1/4 -CP
R819	06T75433W41	RES,RK 471J 1/4 -CP
R820	06T75431W60	RES,RK 112J 1/10 -CP
R821	06T75431W60	RES,RK 112J 1/10 -CP
R822	06T75431W60	RES,RK 112J 1/10 -CP
R823	06T75431W60	RES,RK 112J 1/10 -CP
R824	06T75433W65	RES,RK 472J 1/4 -CP
R831	06T25277Y69	RES,RK 332J 1/16 -CP
R832	06T75433W49	RES,RK 102J 1/4 -CP
R833	06T75433W73	RES,RK 103J 1/4 -CP
R837	06T75431W92	RES,RK 243J 1/10 -CP
R838	06T75433W55	RES,RK 182J 1/4 -CP
R839	06T75433W55	RES,RK 182J 1/4 -CP
R840	06T75434W25	RES,RK 8R2J 1/4 -CP
R841	06T75434W25	RES,RK 8R2J 1/4 -CP
R842	06T75434W25	RES,RK 8R2J 1/4 -CP
R843	06T75434W25	RES,RK 8R2J 1/4 -CP
R847	06T75431W83	RES,RK 103J 1/10 -CP
R850	06T25277Y61	RES,RK 152J 1/16 -CP
R851	06T25277Y65	RES,RK 222J 1/16 -CP
R853	06T25277Y65	RES,RK 222J 1/16 -CP
R854	06T25277Y61	RES,RK 152J 1/16 -CP
R855	06T75433W01	RES,RK 10RJ 1/4 -CP
R856	06T75433W15	RES,RK 39RJ 1/4 -CP
R857	06T75433W15	RES,RK 39RJ 1/4 -CP
R858	06T75433W15	RES,RK 39RJ 1/4 -CP
R859	06T75433W15	RES,RK 39RJ 1/4 -CP
R860	06T25277Y59	RES,RK 122J 1/16 -CP
R861	06T25277Y73	RES,RK 472J 1/16 -CP
R862	06T25277Y77	RES,RK 682J 1/16 -CP
R863	06T75431W83	RES,RK 103J 1/10 -CP
R864	06T75431W83	RES,RK 103J 1/10 -CP
R865	06T25277Y81	RES,RK 103J 1/16 -CP
R866	06T25277Y81	RES,RK 103J 1/16 -CP
R867	06T25277Y77	RES,RK 682J 1/16 -CP
R868	06T75431W83	RES,RK 103J 1/10 -CP
R869	06T25277Y41	RES,RK 221J 1/16 -CP
R870	06T75431W87	RES,RK 153J 1/10 -CP
R872	06T75433W35	RES,RK 271J 1/4 -CP
R873	06T75433W35	RES,RK 271J 1/4 -CP

Symbol No.	Part No.	Description
R875	06T75433W41	RES,RK 471J 1/4 -CP
R876	06T15443W59	RES,RK 182F 1/10 -CP
R877	06T15443W71	RES,RK 562F 1/10-CP
R881	06T75434W23	RES,RK 5R6J 1/4 -CP
R882	06T75431W83	RES,RK 103J 1/10 -CP
R883	06T75434W22	RES,RK 2R2J 1/4 -CP
RA505	06S45591W06	RES,ARY MNR102J 4-CP
RA506	06S45591W06	RES,ARY MNR102J 4-CP
RA507	06S45591W06	RES,ARY MNR102J 4-CP
Connectors		
CB101	09T15127Y22	FFC,SLW22S-1C7S -DB
CB330	09T25738Y06	WTB,53254-0610 -DB
CB501	09T45434W15	FFC,52271-1590 -ED
CB601	09T25436Y02	WTB,53253-0210 -DB
CB603	09T35080Y04	WTB,SZ15-04WS -DB
Front P.W.Board		
IC's		
IC401	51T85152W01	LC75883 -QT
IC402	51T15186Y01	LC75823W -QT
IC403	51T95040W01	SBX8035F -NS
Transistors		
Q405	48T52439F01	TR,2SD602A-RS-TX -CP
Q406	48T52439F01	TR,2SD602A-RS-TX -CP
Q408	48T64222F02	TR ,UN2212 22-22 -TX
Q409	48T64222F01	TR ,UN2211 10-10 -TX
Q410	48T64222F01	TR ,UN2211 10-10 -TX
Diodes		
D401	48T81063F01	DIO,CP.MA159 / TX-CP
D402	48T94471F01	TR ,IMN10
D405	48T85357W01	DIO,1PS226 -CP
D406	48T85357W01	DIO,1PS226 -CP
D407	48T85357W01	DIO,1PS226 -CP
D408	48T85357W01	DIO,1PS226 -CP
D409	48T85357W01	DIO,1PS226 -CP

Symbol No.	Part No.	Description
LED's		
LD401	48T75261W01	LED,SML-020PDTT87-CP(ORG/GRN)
LD402	48T75261W01	LED,SML-020PDTT87-CP(ORG/GRN)
LD403	48T75261W01	LED,SML-020PDTT87-CP(ORG/GRN)
LD404	48T75261W01	LED,SML-020PDTT87-CP(ORG/GRN)
LD405	48T75261W01	LED,SML-020PDTT87-CP(ORG/GRN)
LD406	48T75261W01	LED,SML-020PDTT87-CP(ORG/GRN)
LD407	48T75261W01	LED,SML-020PDTT87-CP(ORG/GRN)
LD408	48T75261W01	LED,SML-020PDTT87-CP(ORG/GRN)
LD409	48T75261W01	LED,SML-020PDTT87-CP(ORG/GRN)
LD410	48T75261W01	LED,SML-020PDTT87-CP(ORG/GRN)
LD411	48T75261W01	LED,SML-020PDTT87-CP(ORG/GRN)
LD412	48T75261W01	LED,SML-020PDTT87-CP(ORG/GRN)
LD413	48T75261W01	LED,SML-020PDTT87-CP(ORG/GRN)
LD416	48T25583Y01	LED,KB1111CE -CP(BLU)
LD417	48T25534Y02	LED,BR1111C -CP(RED)
LD418	48T25534Y02	LED,BR1111C -CP(RED)
Inverter		
INV401	01T95281W08	ASSY,INV 7852R0
Switches		
SW402	40T55656W06	SW,TACT SKQMAJ001-E2 (TUNE A.ME UP/FWD)
SW403	40T55656W06	SW,TACT SKQMAJ001-E2 (PLAY/PAUSE/TUNE A.ME)
SW404	40T55656W06	SW,TACT SKQMAJ001-E2 (TUNE A.ME DN/BWD)
SW405	40T55656W06	SW,TACT SKQMAJ001-E2(MODE/BBE)
SW406	40T55656W06	SW,TACT SKQMAJ001-E2(SOURCE/PWR)
SW407	40T55656W06	SW,TACT SKQMAJ001-E2 (BAND/T.S.M.)
SW408	40T55656W06	SW,TACT SKQMAJ001-E2(AF)
SW409	40T55656W06	SW,TACT SKQMAJ001-E2(AUDIO UP)
SW410	40T55656W06	SW,TACT SKQMAJ001-E2(AUDIO DOWN)
SW411	40T55656W06	SW,TACT SKQMAJ001-E2(F/DEMO)
SW412	40T55656W06	SW,TACT SKQMAJ001-E2(F1)
SW413	40T55656W06	SW,TACT SKQMAJ001-E2(F2)
SW414	40T55656W06	SW,TACT SKQMAJ001-E2(F3)
SW415	40T55656W06	SW,TACT SKQMAJ001-E2(F4)
SW416	40T55656W06	SW,TACT SKQMAJ001-E2(F5)
SW417	40T55656W06	SW,TACT SKQMAJ001-E2(F6)
SW418	40T55656W06	SW,TACT SKQMAJ001-E2(EJECT)
SW419	40T55656W06	SW,TACT SKQMAJ001-E2 (TITLE/T.R.V.S.)

Symbol No.	Part No.	Description
SW420	40T55656W06	SW, TACT SKQMAJ001-E2(MUTE/DISP)
SW421	40T55656W06	SW, TACT SKQMAJ001-E2(ANGLE UP)
SW422	40T55656W06	SW, TACT SKQMAJ001-E2(ANGLE DN)
SW423	40T55656W06	SW, TACT SKQMAJ001-E2 (T. INFO/S.P.S.)
SW424	40T55656W06	SW, TACT SKQMAJ001-E2(RESET)
Capacitors		
C401	08S53332F51	CAP, CP .223-K-B -CP
C402	08S82122F61	CAP, CER. 102J-CH1H-CP
C403	08T15399W03	CAP, CER. 473K-B1H -CP
C404	08T15399W03	CAP, CER. 473K-B1H -CP
C405	08S53332F62	CAP, CP .473-K-B -CP
C406	08T15399W03	CAP, CER. 473K-B1H -CP
C407	08T15399W03	CAP, CER. 473K-B1H -CP
C408	08S82122F57	CAP, CER. 681J-CH1H-CP
C409	08S35374W01	CAP, CER 104K-B1E-CP
E402	23S55311W42	CAP, TAN. 4R7-1D-B -CP
Resistors		
R401	06T75431W59	RES, RK 102J 1/10 -CP
R402	06T75431W59	RES, RK 102J 1/10 -CP
R403	06T75431W59	RES, RK 102J 1/10 -CP
R404	06T75431W59	RES, RK 102J 1/10 -CP
R405	06T75431W59	RES, RK 102J 1/10 -CP
R406	06T75431W59	RES, RK 102J 1/10 -CP
R407	06T75431W59	RES, RK 102J 1/10 -CP
R418	06T75431W98	RES, RK 433J 1/10 -CP
R423	06T75431W59	RES, RK 102J 1/10 -CP
R424	06T75431W98	RES, RK 433J 1/10 -CP
R428	06T75431W59	RES, RK 102J 1/10 -CP
R429	06T75431W59	RES, RK 102J 1/10 -CP
R430	06T75431W59	RES, RK 102J 1/10 -CP
R431	06T75431W59	RES, RK 102J 1/10 -CP
R432	06T75431W59	RES, RK 102J 1/10 -CP
R433	06T75431W59	RES, RK 102J 1/10 -CP
R434	06T75431W59	RES, RK 102J 1/10 -CP
R435	06T75431W59	RES, RK 102J 1/10 -CP
R436	06T75431W59	RES, RK 102J 1/10 -CP
R437	06T75431W59	RES, RK 102J 1/10 -CP
R438	06T75433W39	RES, RK 391J 1/4 -CP
R439	06T75433W27	RES, RK 121J 1/4 -CP
R440	06T75433W43	RES, RK 561J 1/4 -CP
R441	06T75433W27	RES, RK 121J 1/4 -CP
R442	06T75433W33	RES, RK 221J 1/4 -CP
R443	06T75433W26	RES, RK 111J 1/4 -CP

Symbol No.	Part No.	Description
R444	06T75433W37	RES, RK 331J 1/4 -CP
R445	06T75433W33	RES, RK 221J 1/4 -CP
R446	06T75433W39	RES, RK 391J 1/4 -CP
R447	06T75433W33	RES, RK 221J 1/4 -CP
R449	06T75433W41	RES, RK 471J 1/4 -CP
R451	06T75431W67	RES, RK 222J 1/10 -CP
R455	06T75431W67	RES, RK 222J 1/10 -CP
R456	06T75433W43	RES, RK 561J 1/4 -CP
R458	06T75431W35	RES, RK 101J 1/10 -CP
R459	06T75431W75	RES, RK 472J 1/10 -CP
R464	06T75432W08	RES, RK 104J 1/10 -CP
R465	06T75433W43	RES, RK 561J 1/4 -CP
RA401	06S45591W06	RES, ARY MNR102J 4-CP
RA402	06S45591W06	RES, ARY MNR102J 4-CP
DOOR P.W. Board		
Transistor		
Q690	48T64222F01	TR , UN2211 10-10 -TX
LED's		
LD690	48T15521Y03	LED, SML-310DT -CP(ORG)
LD691	48T15521Y03	LED, SML-310DT -CP(ORG)
Resistor		
R690	06T75433W57	RES, RK 222J 1/4 -CP
Connector		
CB690	01T25708Y02	ASSY, WIRE MD DET
Servo P.W. Board		
IC's		
IC1101	51T15389Y01	LR37648 -QT
IC1102	51T15390Y01	IR3R55M -QT
IC1103	51T25043Y01	BA5982FP-E2 -SEA
IC1104	51T25070Y01	MSM51V4400DP-70TK-ST

Symbol No.	Part No.	Description
IC1105	51T45571W02	IC ,LB1836M -SE05
IC1201	51T15393Y01	UDA1320-A -SE2
IC1202	51T90149F03	IC,M5218AFP-TE3-SE06
IC1501	51T25618Y01	IC,D78076GC
IC1502	51T25158Y01	M24C01-WMN6T -SE2
IC1503	51T25069Y01	TC7WH34FU-TE12L -SE1
IC1504	51T15362Y01	TC74HCT7007AFTP2-SE6
IC1505	51T25069Y01	TC7WH34FU-TE12L -SE1
IC1801	51T25189Y01	S-81233SGUP-T1 -NE2
IC1802	51T95558W01	BA033FP-E2 -NE5
Transistor		
Q1501	48T94606F56	TR,DTA114EUA-T106-CP
Diode		
D1101	48T81063F01	DIO,CP.MA159 / TX-CP
Coils		
L1101	24T75195W38	IND,LFC32 10RJ -CP
L1102	24T75195W34	IND,LFC32 4R7J -CP
L1103	24T75195W26	IND,LFC32 1R0J -CP
L1105	24T75195W22	IND,LFC32 R47J -CP
Crystals		
XL1101	91T15326Y02	OSC,CER CSTCV33.8-E1
XL1501	91T15033Y03	OSC,CER CSTCC4.91-E1
Thermistor		
TH1501	48T25250Y01	TMT,ERTJ1VV104J -CP
Capacitors		
C1101	08T65289W03	CAP,EMK 105K-BJ1C-CP
C1102	08T65289W03	CAP,EMK 105K-BJ1C-CP
C1103	08T15399W04	CAP,CER.273K-B1H -CP
C1104	08T65289W03	CAP,EMK 105K-BJ1C-CP
C1105	08S45677W46	CAP,CER 271J-CH1H-CP
C1106	08S45677W46	CAP,CER 271J-CH1H-CP
C1107	08S45677W50	CAP,CER 391J-CH1H-CP

Symbol No.	Part No.	Description
C1108	08S45677W50	CAP,CER 391J-CH1H-CP
C1109	08T55487W02	CAP,CER.224K-B1C -CP
C1110	08S45676W74	CAP,CER 123K-B1H -CP
C1111	08S45676W67	CAP,CER.332K-B1H -CP
C1112	08T15399W02	CAP,CER.333K-B1H -CP
C1113	08T15399W04	CAP,CER.273K-B1H -CP
C1114	08S35374W01	CAP,CER 104K-B1E-CP
C1115	08S35374W01	CAP,CER 104K-B1E-CP
C1116	08S35374W01	CAP,CER 104K-B1E-CP
C1117	08S35374W01	CAP,CER 104K-B1E-CP
C1118	08S35374W01	CAP,CER 104K-B1E-CP
C1119	08S65128F69	CAP,CER.103K-B1H -CP
C1120	08T55487W02	CAP,CER.224K-B1C -CP
C1121	08T15399W02	CAP,CER.333K-B1H -CP
C1122	08S35374W01	CAP,CER 104K-B1E-CP
C1124	08S35374W01	CAP,CER 104K-B1E-CP
C1125	08S35374W01	CAP,CER 104K-B1E-CP
C1127	08T15399W04	CAP,CER.273K-B1H -CP
C1130	08S35374W01	CAP,CER 104K-B1E-CP
C1131	08S45677W54	CAP,CER 561J-CH1H-CP
C1132	08S45677W54	CAP,CER 561J-CH1H-CP
C1133	08S45677W54	CAP,CER 561J-CH1H-CP
C1134	08S45677W54	CAP,CER 561J-CH1H-CP
C1135	08S45676W80	CAP,CER 223K-B1E -CP
C1136	08S45676W80	CAP,CER 223K-B1E -CP
C1137	08S45676W70	CAP,CER 562K-B1H -CP
C1138	08S45676W70	CAP,CER 562K-B1H -CP
C1201	08S45677W36	CAP,CER.101J-CH1H-CP
C1202	08S45677W36	CAP,CER.101J-CH1H-CP
C1203	08S45677W46	CAP,CER 271J-CH1H-CP
C1204	08S45677W46	CAP,CER 271J-CH1H-CP
C1205	08S45677W58	CAP,CER 821J-CH1H-CP
C1206	08S45677W58	CAP,CER 821J-CH1H-CP
C1207	08S45677W56	CAP,CER 681J-CH1H-CP
C1208	08S45677W56	CAP,CER 681J-CH1H-CP
C1209	08T15399W04	CAP,CER.273K-B1H -CP
C1501	08S35374W01	CAP,CER 104K-B1E-CP
C1502	08S35374W01	CAP,CER 104K-B1E-CP
C1503	08S35374W01	CAP,CER 104K-B1E-CP
C1504	08S35374W01	CAP,CER 104K-B1E-CP
C1505	08S35374W01	CAP,CER 104K-B1E-CP
C1801	08T15399W04	CAP,CER.273K-B1H -CP
C1802	08T15399W04	CAP,CER.273K-B1H -CP
C1806	08T15399W04	CAP,CER.273K-B1H -CP
C1807	08T15399W04	CAP,CER.273K-B1H -CP
E1101	23S55311W22	CAP,TAN.4R7-1A-A -CP
E1103	23S55311W44	CAP,TAN.10R-1D-C -CP
E1104	23T85373W03	CAP,ECAR 47R-05-C-E5
E1111	23S55311W22	CAP,TAN.4R7-1A-A -CP

Symbol No.	Part No.	Description
E1112	23S55311W22	CAP,TAN.4R7-1A-A -CP
E1113	23S55311W51	CAP,TAN.1R0-1E-A -CP
E1114	23S55311W51	CAP,TAN.1R0-1E-A -CP
E1201	23S55311W23	CAP,TAN.10R-1A-B -CP
E1203	23S55311W23	CAP,TAN.10R-1A-B -CP
E1204	23S55311W23	CAP,TAN.10R-1A-B -CP
E1205	23T85373W03	CAP,ECAR 47R-05-C-E5
E1206	23T85373W03	CAP,ECAR 47R-05-C-E5
E1207	23T85373W05	CAP,ECAR 10R-1C-C-E5
E1208	23T85373W04	CAP,RA 22R-0J-B -E5
E1209	23T85373W05	CAP,ECAR 10R-1C-C-E5
E1210	23T85373W05	CAP,ECAR 10R-1C-C-E5
E1801	23T85373W05	CAP,ECAR 10R-1C-C-E5
E1802	23T85373W03	CAP,ECAR 47R-05-C-E5
E1803	23T85373W03	CAP,ECAR 47R-05-C-E5
E1804	23T85373W03	CAP,ECAR 47R-05-C-E5
Resistors		
R1101	06S45675W20	RES,RK 394J 1/10 -CP
R1103	06S45674W89	RES,RK 223J 1/10 -CP
R1104	06S45674W89	RES,RK 223J 1/10 -CP
R1105	06S45674W89	RES,RK 223J 1/10 -CP
R1106	06S45674W89	RES,RK 223J 1/10 -CP
R1107	06S45674W99	RES,RK 563J 1/10 -CP
R1108	06S45675W43	RES,RK JUMPER1/10-CP
R1110	06S45674W57	RES,RK 102J 1/10 -CP
R1114	06S45674W59	RES,RK 122J 1/10 -CP
R1116	06S45674W25	RES,RK 47RJ 1/10 -CP
R1117	06S45674W25	RES,RK 47RJ 1/10 -CP
R1118	06S45674W25	RES,RK 47RJ 1/10 -CP
R1119	06S45675W30	RES,RK 105J 1/10 -CP
R1131	06S45674W81	RES,RK 103J 1/10 -CP
R1132	06S45674W95	RES,RK 393J 1/10 -CP
R1133	06S45674W95	RES,RK 393J 1/10 -CP
R1134	06S45674W81	RES,RK 103J 1/10 -CP
R1135	06S45674W81	RES,RK 103J 1/10 -CP
R1136	06S45674W91	RES,RK 273J 1/10 -CP
R1137	06S45674W91	RES,RK 273J 1/10 -CP
R1138	06S45674W81	RES,RK 103J 1/10 -CP
R1139	06S45674W81	RES,RK 103J 1/10 -CP
R1140	06S45674W91	RES,RK 273J 1/10 -CP
R1141	06S45674W91	RES,RK 273J 1/10 -CP
R1142	06S45674W81	RES,RK 103J 1/10 -CP
R1143	06S45674W81	RES,RK 103J 1/10 -CP
R1144	06S45674W88	RES,RK 203J 1/10 -CP
R1145	06S45674W88	RES,RK 203J 1/10 -CP
R1146	06S45674W81	RES,RK 103J 1/10 -CP

Symbol No.	Part No.	Description
R1201	06S45674W69	RES,RK 332J 1/10 -CP
R1202	06S45674W69	RES,RK 332J 1/10 -CP
R1203	06S45674W87	RES,RK 183J 1/10 -CP
R1204	06S45674W87	RES,RK 183J 1/10 -CP
R1205	06S45674W65	RES,RK 222J 1/10 -CP
R1206	06S45674W65	RES,RK 222J 1/10 -CP
R1207	06S45674W85	RES,RK 153J 1/10 -CP
R1208	06S45674W85	RES,RK 153J 1/10 -CP
R1209	06S45675W14	RES,RK 224J 1/10 -CP
R1210	06S45675W14	RES,RK 224J 1/10 -CP
R1211	06S45674W54	RES,RK 751J 1/10 -CP
R1212	06S45674W54	RES,RK 751J 1/10 -CP
R1213	06S45674W90	RES,RK 243J 1/10 -CP
R1214	06S45674W90	RES,RK 243J 1/10 -CP
R1215	06S45674W25	RES,RK 47RJ 1/10 -CP
R1216	06S45674W25	RES,RK 47RJ 1/10 -CP
R1219	06S45674W83	RES,RK 123J 1/10 -CP
R1220	06S45674W83	RES,RK 123J 1/10 -CP
R1501	06S45674W89	RES,RK 223J 1/10 -CP
R1502	06S45674W89	RES,RK 223J 1/10 -CP
R1506	06S45674W97	RES,RK 473J 1/10 -CP
R1507	06S45674W81	RES,RK 103J 1/10 -CP
R1508	06S45674W81	RES,RK 103J 1/10 -CP
R1510	06S45674W97	RES,RK 473J 1/10 -CP
R1513	06S45674W97	RES,RK 473J 1/10 -CP
R1519	06S15593Y71	RES,RK 822F 1/10 -CP
R1520	06S45674W97	RES,RK 473J 1/10 -CP
R1521	06S45674W97	RES,RK 473J 1/10 -CP
R1524	06S70072F37	RES,CP .221-J-1/4-CP
R1532	06S45674W33	RES,RK 101J 1/10 -CP
R1538	06S45674W33	RES,RK 101J 1/10 -CP
R1539	06S45674W33	RES,RK 101J 1/10 -CP
R1540	06S45674W33	RES,RK 101J 1/10 -CP
R1541	06S45674W33	RES,RK 101J 1/10 -CP
R1542	06S45674W33	RES,RK 101J 1/10 -CP
R1543	06S45674W33	RES,RK 101J 1/10 -CP
R1544	06S45674W33	RES,RK 101J 1/10 -CP
R1545	06S45674W33	RES,RK 101J 1/10 -CP
R1546	06S45674W33	RES,RK 101J 1/10 -CP
Connectors		
CB1101	09T15107Y28	FFC,52435-2891 -ED
CB1801	09T45435W22	FFC,52207-2290 -EQ

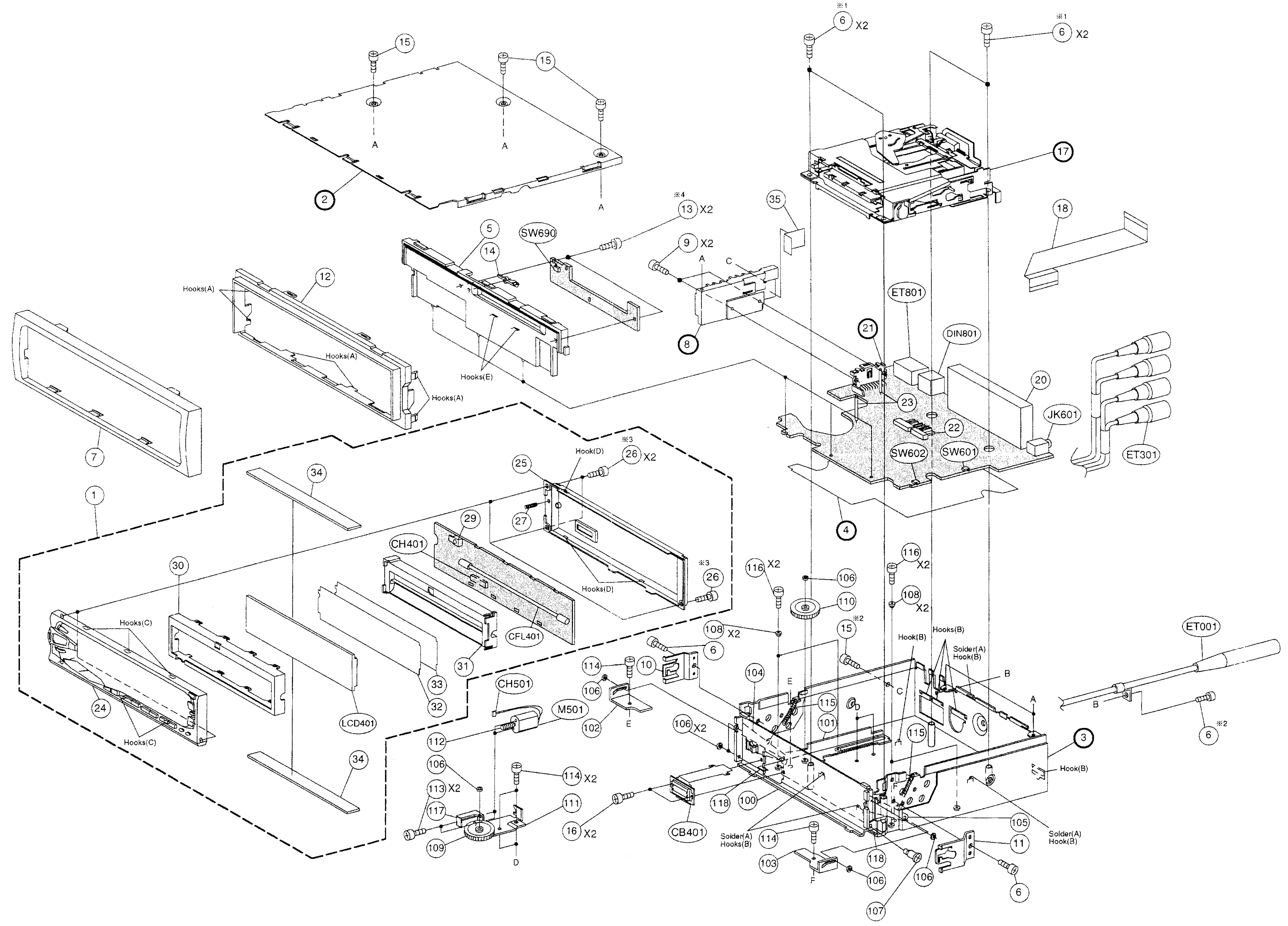
Symbol No.	Part No.	Description
Miscellaneous		
CB401	01T35001Y01	Assy.,Unizon Connector
CFL401	65T25089Y04	FL Tube,CTY22P2-110N98
CH401	09T25444Y15	BTB,55323-1511
CH501	01T25413Y01	Assy.,2P Connector
DIN801	09T55071W11	Ai-NET Connector
ET001	01T15513W26	Assy.,Antenna Receptacle
ET301	01T15332Y08	Assy.,RCA Connector (NFP/FRONT/REAR)
ET801	09T55175W16	SP.Output & Power Supply Connector
HD1101	88T15711Y01	Pick-Up Unit,HPM-140
JK601	09T95460W01	Remote Control Interface Connector
LCD401	65T25719Y01	LCD Display
M501	59T65085W01	Nose Motor(7V-370mA)
M1101	01V16200Y23	Assy,,Spindle Motor(2V-170mA)
M1102	01V16200Y24	Assy.,Sled Motor(4.8V-175mA)
M1103	01V16200Y30	Assy.,Eject Motor(7V-370mA)
SW601	40T15494Y01	SW,DETCT SPVG23(NOSE CLOSE DET)
SW602	40T15494Y02	SW,DETCT SPVG13(NOSE OPEN DET)
SW690	40T95060W03	SW,DETCT SPPB53H(MD DOOR DET)
SW1101	40T15375Y01	Switch,Detector,SPVC1-N(LIMIT)
SW1102	40T15222W01	Switch,Detector(PACK DOWN)
SW1103	40T15222W01	Switch,Detector(DISC)
SW1201	40T15222W01	Switch,Detector(PACK IN)
SW1202	40T15222W01	Switch,Detector(POSITION)

Symbol No.	Part No.	Description

MEMO

Exploded View (Cabinet)

NOTE : The screws marked "※1~4" are disassembly parts.


1
2
3
4
5
15
15
2
A
A
A
※1
6 X2
※1
6 X2
17
18
35
※4
13 X2
9 X2
A
C
8
5
14
SW690
12
Hooks(A)
Hooks(A)
Hooks(A)
Hooks(E)
7
1
ET801
21
DIN801
20
23
JK601
22
SW602
SW601
ET301
4
34
25
Hook(D)
※3
26 X2
27
29
CH401
※3
26
Hooks(D)
CFL401
31
33
32
LCD401
30
Hooks(C)
24
Hooks(C)
34
116 X2
106
110
116 X2
108 X2
108 X2
※2
15
6
10
114
106
102
E
104
E
115
101
Hook(B)
Hooks(B)
Solder(A)
Hook(B)
B
C
A
115
3
Hook(B)
ET001
B
※2
6
CH501
M501
112
106
113 X2
117
109
114 X2
111
D
16 X2
106 X2
CB401
118
100
Solder(A)
Hooks(B)
114
103
F
106
118
107
106
105
11
Solder(A)
Hook(B)
6

A | B | C | D | E | F | G

Cabinet Assembly Parts List

NOTE:Parts without part number are not supplied.

Symbol No.	Index	Part No.	Description
1	3-A	01V26800Y33	Assy., Nose Unit
5	2-C	13C21370Y01	Assy., Nose Base (MD)
6		03S44205G07	Screw, Pan (M2.6X5)
7	3-A	33C10618Y01	Face, Plate
9	2-D	03S38013W05	Screw, Pan (M2.6X16)
10	4-D	07D91595W01	Assy., Bracket Side
11	5-F	07D91595W02	Assy., Bracket Side (R)
12	2-C	13D21372Y01	Cover, Nose Base
13	2-D	03S68555F20	Screw, Pan (M1.7X5)
14	2-C	45A20208Y01	Lever, Switch MD
15		03S71677F02	Screw, Pan (M2.6X6)
16	5-D	03S94385F77	Screw, Nylok Pan (M1.7X3)
18	2-F	30T25456Y04	FFC, SMCD-22X100-BDX6 (BL)
20	3-F	77C10163Y01	FM/MW/LW Tuner Unit, MB4R603S (FE001)
22	3-F	36A80303W01	Knob, Slide
23	3-E	09T84840F02	Lug, Style
24	4-A	13D21862Y01	Assy., Nosepiece
25	3-C	13D21369Y01	Nose, Bottom
26		03S68555F20	Screw, Pan (M1.7X5)
27	3-D	41A50111W10	Spring, Knob
29	3-C	07A11037Y01	Bracket, Remote
30	4-B	15B21386Y01	Cover, LCD
31	4-C	15C21387Y01	Case, LCD
32	4-C	26A21388Y01	Reflector, Sheet (A)
33	4-C	26A21388Y02	Reflector, Sheet (B)
34		75T85248W11	Rubber, Electric
35	2-E	14A30748Y01	Insulator, Cover Seet
100	5-E	01C21375Y01	Assy., Bracket F Base
101	4-E	07B21380Y01	Bracket, Slider
102	4-D	07B20734Y01	Bracket, Base L
103	5-E	07B20734Y02	Bracket, Base R
104	4-E	07A21381Y01	Bracket, Arm (L)
105	5-F	07A21381Y02	Bracket, Arm (R)
106		04B41345P54	Washer, Polyslider (M1.7)
107	5-E	03A20851Y02	Screw, Slider
108		49A22103Y01	Roller, Slider Front
109	5-C	44A20248Y02	Gear, Slider
110	4-E	44T25192Y01	Assy., Gear Clutch
111	5-D	07C20740Y01	Bracket, Motor
112	4-C	44A90467W02	Gear, Worm
113	5-C	03S68259F23	Screw, Pan (M2X3)
114		03S94385F13	Screw, Nylok Pan (M2.6X3)
115	4-E	41A22014Y01	Spring, Extension
116	4-E	03S94385F24	Screw, Nylok Pan (M2X3)
117	5-C	14S11351Y95	Insulator, Cover
118	5-E	75S21219Y48	Cushion, Rubber

Disassembly Instructions

1. Removal of Nose Unit

(1) Refer to the Owner's Manual (Part No. 68P21523Y27).

2. Removal of Nose Base

(1) After removal of Top Cover and Side Bracket, ... Hooks (A) (2-B, 3-C)
Face Plate, remove 6 Hooks (A).
Remove Nose Base Cover.
(2) Disconnect a connector to DOOR P.W. Board.
(3) Pull out Nose Base upper.
Remove Nose Base and DOOR P.W.Board attached.

3. Removal of MD Deck Mechanism

(1) After removal of Top Cover, remove 4 screws No.6. .... Screws No. 6 (※1) (1-E, 1-F)
(2) Disconnect FFC 22P No. 18 connected to .... FFC 22P No. 18 (2-F)
Main P.W. Board.

4. Removal of Main P.W. Board

(1) After removal of Nose Base and MD Deck Mechanism, ... Screw No. 6 (※2) (4-G)
remove 2 screws No. 6 and15. Screw No. 15 (※2) (4-E)
(2) Desolder (A) at 4 locations and release Hooks (B) at 9 locations. .... Solder (A) (4-F, 5-E, 5-F)
Hooks (B) (4-E, 4-F, 5-E, 5-F)
(3) Disconnect all connector connected to Main P.W. Board.
Remove Main P.W. Board and Heat Sink attached.

5. Removal of Front P.W. Board

(1) After removal of Nose Unit, remove 3 screws No. 26 and .... Screws No. 26 (※3) (3-D, 4-D)
5 Hooks (C). Hooks (C) (4-B)
Remove Nose Bottom.
(2) Remove 3 Hooks (D). .... Hooks (D) (3-D, 4-D)

6. Removal of DOOR P.W. Board

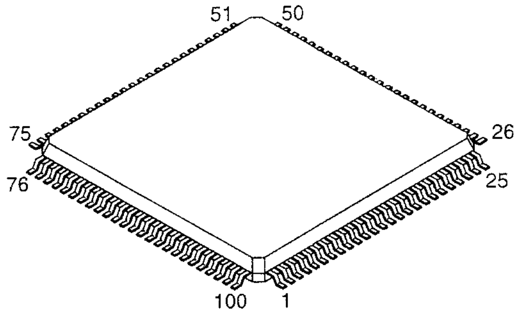
(1) After removal of Nose Base, remove 2 screws No. 13. .... Screws No. 13 (※4) (2-D)
(2) Remove 2 Hooks (E). .... Hooks (E) (3-C)

NOTE : For the screws No., Hook and Solder, refer to the Exploded View (Cabinet) .

Semi - Conductor Lead Identifications (Only Difference)

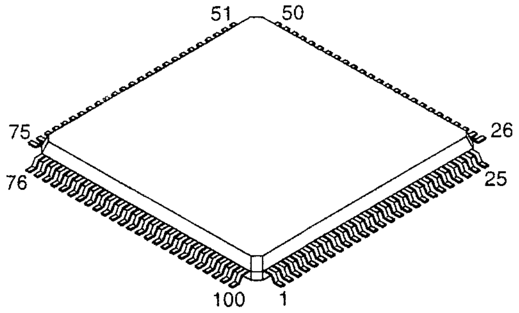
NOTE : Refer to the Service Manual・TDA-7572R (Part No. 68E30104S01) for description not mentioned in this manual.

D784218GC : IC501



PIN NO.	CODE ADDRESS	I/O	PIN NO.	CODE ADDRESS	I/O	PIN NO.	CODE ADDRESS	I/O	PIN NO.	CODE ADDRESS	I/O
1	VD-CNT	I	26	NOSE-ON	I	51	IN DIMMER	I	76	NC	—
2	NC	—	27	GND	—	52	NC	—	77	NC	—
3	NC	—	28	AUDIO LEVEL	I	53	NC	—	78	NC	—
4	NC	—	29	GND	—	54	IN-INT	I	79	NC	—
5	DBSYO	I	30	GND	—	55	LIMIT SW2	I	80	NC	—
6	MDTRQ	I	31	GND	—	56	LIMIT SW1		81	V_{DD}	—
7	PACK-IN	I	32	AREA	I	57	DOOR SW	I	82	PWR IC-ON	O
8	NC	—	33	AV_{SS}	—	58	MOTOR REV	O	83	NOSE-PWR	O
9	V_{DD}	—	34	NC	—	59	MOTOR FOR		84	CFL ON	O
10	X2	—	35	DTS CE	O	60	DOOR LED	O	85	PWR-CONT	O
11	X1	—	36	$AV_{REF}1$	—	61	NC	—	86	NC (PULL UP)	—
12	V_{SS}	—	37	DTS STS	I	62	NC	—	87	DIMMER-CONT	O
13	NC	—	38	DTS CMD	O	63	NC	—	88	BUZZER	O
14	V_{SS}	—	39	DTS CLK	O	64	EV-DATA	O	89	NC	—
15	RESET	I	40	DSCK	I/O	65	EV-CLK	O	90	V-CONT	O
16	BAT-DET	I	41	GND	—	66	BBE-1	O	91	REMOCON	I
17	ACC-DET	I	42	DBSY	O	67	BBE-2	O	92	NC	—
18	MD DT	I	43	DTS MUTE	I	68	BBE-3	O	93	NC	—
19	BUS IN	I	44	LCD-RST	O	69	NFP-1	O	94	V_{PP}	—
20	BUS OUT	O	45	LCD-DO	I	70	NFP-2		95	NC	—
21	MD RST	O	46	LCD-DI	O	71	MUTE	O	96	NC	—
22	STBY	O	47	LCD-CLK	O	72	V_{SS}	—	97	NC	—
23	AV_{DD}	—	48	LCD-CE	O	73	MOTOR-CONT	O	98	NC	—
24	$AV_{REF}0$	—	49	NC	—	74	NC	—	99	NC	—
25	GND	—	50	NC	—	75	NC	—	100	HS DT	O

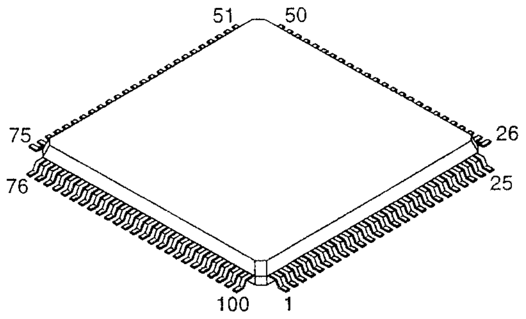
LR37648 : IC1101 (DY31A020)



PIN NO.	CODE ADDRESS	I/O	PIN NO.	CODE ADDRESS	I/O	PIN NO.	CODE ADDRESS	I/O	PIN NO.	CODE ADDRESS	I/O
1	EFMMON	AO	26	RAA3	O	51	X700KO	O	76	TOTMON	O
2	AV_{CC}	—	27	RAA2	O	52	EXPORT0	O	77	TEMON	O
3	EFMI	AI	28	RAA1	O	53	EXPORT1	O	78	SBCK	I
4	AGND	—	29	RAA0	O	54	TESO1	O	79	SBO	O
5	AIN	AI	30	RAA10	O	55	TEST3	I/TO	80	SBSY	O
6	EIN	AI	31	$V_{DD}2$	—	56	TEST4	I/TO	81	SFSY	O
7	TCG	AI	32	RAA4	O	57	CDDATA	I/TO	82	FOK	O
8	BIN	AI	33	RAA5	O	58	CDLRCK	I/TO	83	SENSE	O
9	FIN	AI	34	RAA6	O	59	CDBCLK	I/TO	84	COUT	O
10	VBAT	AI	35	RAA7	O	60	VXI	I	85	MCCK	O
11	WBI	I	36	RAA8	O	61	VPO	O	86	DINTX	O
12	$V_{DD}1$	—	37	RAOEX	O	62	$V_{DD}1$	—	87	$V_{DD}1$	—
13	D. GND	—	38	D. GND	—	63	D. GND	—	88	D. GND	—
14	TEST0	I	39	RACASX	O	64	XI	I	89	RSTX	I
15	TEST1	I	40	RAD2	I/TO	65	XO	O	90	SYD0	I/TO
16	TEST2	I	41	RAD3	I/TO	66	DIN	I	91	SYD1	I/TO
17	X176KO	O	42	RAA9	O	67	DOUT	O	92	SYD2	I/TO
18	FODRF	O	43	RARASX	O	68	$V_{DD}3$	—	93	SYD3	I/TO
19	FODRR	O	44	RAWEX	O	69	D. GND	—	94	SYD4	I/TO
20	TRDRF	O	45	RAD1	I/TO	70	LRCK	O	95	SYD5	I/TO
21	TRDRR	O	46	RAD0	I/TO	71	BCLK	O	96	SYD6	I/TO
22	SLDRF	O	47	TCRS	O	72	DFCK	O	97	SYD7	I/TO
23	SLDRR	O	48	ACRCER	O	73	ADDATA	I	98	SYWRX	I
24	SPDRF	O	49	PLCK	O	74	DADATA	O	99	SYRDX	I
25	SPDRR	O	50	EFMO	O	75	FEMON	O	100	SYRS	I

NOTE : I : INPUT, O : OUTPUT, TO : THREE SPATE OUTPUT
AI : ANALOG INPUT, AO : ANALOG OUTPUT

D78076GC : IC1501 (DY31A020)



PIN NO.	CODE ADDRESS	I/O	PIN NO.	CODE ADDRESS	I/O	PIN NO.	CODE ADDRESS	I/O	PIN NO.	CODE ADDRESS	I/O
1	KEY1(PULL-UP)	—	26	SYRS	O	51	NC	—	76	NC	—
2	KEY2(PULL-UP)	—	27	SYRDX	O	52	NC	—	77	NC	—
3	TEMP	I	28	SYWRX	O	53	NC	—	78	NC	—
4	GND	—	29	SYSD0	I/ O	54	VDCNT	O	79	EMPH	O
5	AV_{SS}	—	30	SYSD1	I/ O	55	NC	—	80	MUTE	O
6	LDVAR	O	31	SYSD2	I/ O	56	NC	—	81	IC	—
7	NC	—	32	SYSD3	I/ O	57	NC	—	82	X2	—
8	$AV_{REF}1$	—	33	SYSD4	I/ O	58	NC	—	83	X1	I
9	HSDT	I	34	SYSD5	I/ O	59	NC	—	84	V_{DD}	—
10	MDDT	O	35	SYSD6	I/ O	60	DBSYI	I	85	NC	—
11	DSCK	I	36	SYSD7	I/ O	61	DSCKI	I	86	XT1 (V_{DD})	—
12	V_{SS}	—	37	NC	—	62	NC	—	87	MDRST	I
13	NC	—	38	PDWSW	I	63	NC	—	88	NC	—
14	NC	—	39	LOAD1	O	64	NC	—	89	NC	—
15	NC	—	40	LOAD2	O	65	NC	—	90	STBY	I
16	NC	—	41	PINSW	I	66	MDTRQ	O	91	NC	—
17	RFTEMP	I	42	POSSW	I	67	NC	—	92	ADDCNT	O
18	RFLATCH	O	43	V_{SS}	—	68	NC	—	93	DINT	I
19	RFDATA	O	44	DISCSW	I	69	NC	—	94	SENSE	I
20	RFCLK	O	45	LIMIT	I	70	NC	—	95	AV_{DD}	—
21	FOK	I	46	TEST0 (PULL-UP)	—	71	NC	—	96	$AV_{REF}0$	—
22	CIN	I	47	TEST1 (PULL-UP)	—	72	NC	—	97	GND	—
23	XRST	O	48	SDA	I/ O	73	DBSYO	O	98	GND	—
24	OPICGA	O	49	CSL	O	74	NC	—	99	ANDEB (PULL-UP)	—
25	DRV-MUTE	O	50	NC	—	75	LDON	O	100	NC	—

Exploded View (MD Deck Mechanism)

(DY31A020)

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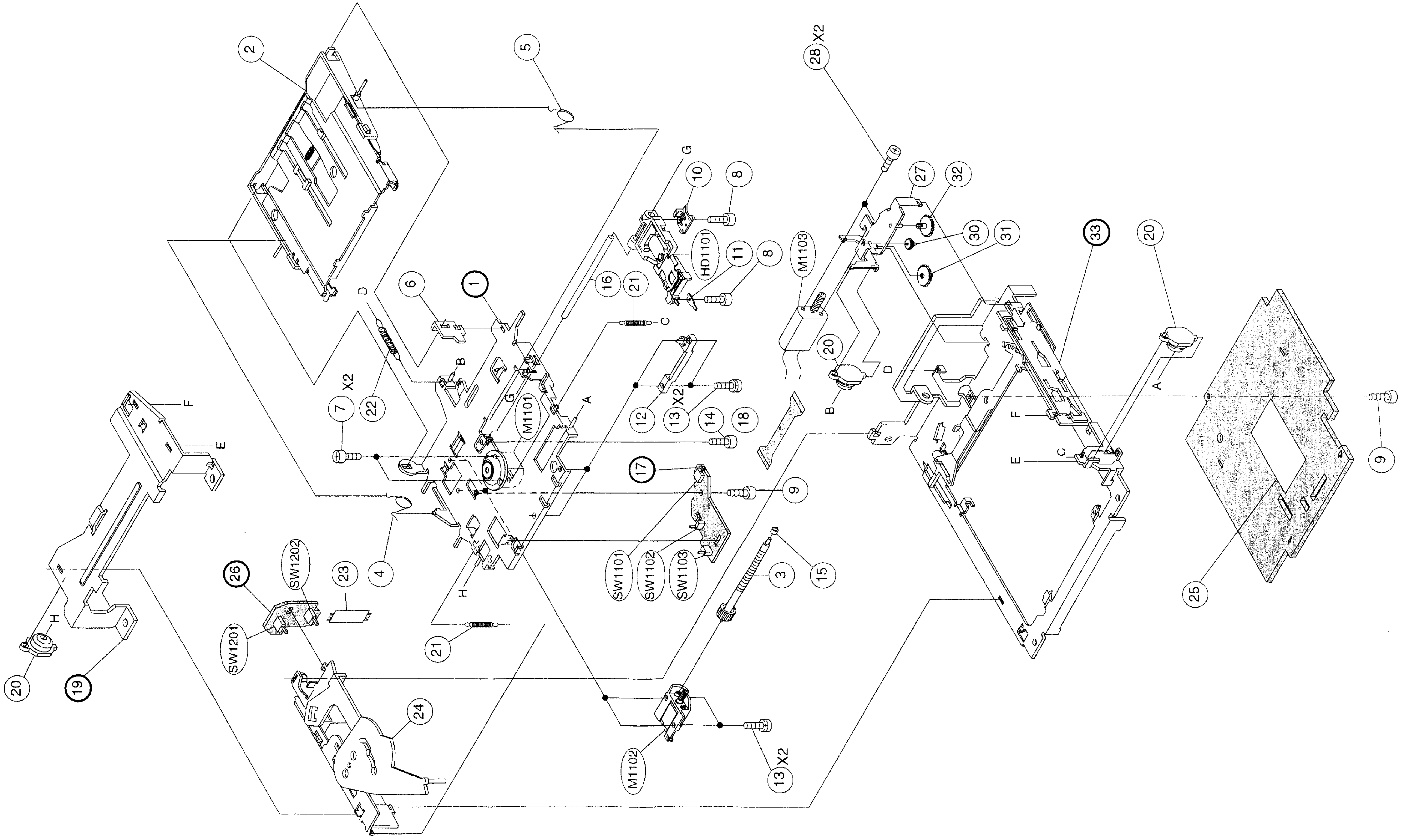
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28 X2
G
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HD1101
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M1103
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C
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7 X2
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SW1101
SW1102
SW1103
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SW1202
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M1102
13 X2

A B C D E F G

MD Deck Mechanism Assembly Parts List

NOTE:Parts without part number are not supplied.

Symbol No.	Index	Part No.	Description
2	2-B	01A20657Y01	Assy., Holder Pack
3	4-E	01V16200Y25	Assy., Sled Shaft
4	4-C	41A11698Y01	Spring, Holder L
5	2-C	41A11699Y01	Spring, Holder R
6	3-C	07A11674Y01	Stay, Arm
7	3-B	03S68259F34	Screw, Pan (M1.7X1.7)
8		03S68259F35	Screw, Pan (M1.4X2.5)
9		03S38013W25	Screw, Bind (M2X4)
10	2-D	41A11685Y01	Spring, Nut
11	3-D	41A20030Y01	Spring, Pick
12	3-D	07A11686Y01	Guide, Pick
13		03S40014G07	Screw, W/Washer (M2X4)
14	3-D	03S44205G43	Screw, Bind (M2.6X4)
15	4-E	43A31616W01	Bush
16	3-D	49A11696Y01	Shaft, Main
18	3-D	84T25044Y01	FPC Drive P.W.Board
20		75B20265Y01	Damper, DY
21		41A11701Y02	Spring, MD
22	3-C	41A11701Y03	Spring, MD
23	4-B	30T65174W11	Wire, Flat
24	5-C	01A20658Y01	Assy., Eject Frame
25	4-G	14A21131Y01	Insulator, Cover
27	2-E	01A11654Y01	Assy., Riv. Bracket Motor
28	2-E	03S68259F31	Screw, Pan (M2X2.5)
30	2-F	44A11678Y01	Gear, Eject Motor
31	2-F	44A11679Y01	Gear, Eject Idler
32	2-F	44A11680Y01	Gear, Eject Out

Symbol No.	Index	Part No.	Description